UNIVERSIDADE ESTADUAL PAULISTA
"JÚLIO DE MESQUITA FILHO"

INVESTIGAÇÃO SISTEMÁTICA DE ESPECTROS DE ABSORÇÃO A TRANSFORMADA DE FOURIER DO METANOL E SEUS ISÓTOPOS, NA REGIÃO IR E FIR

Tese apresentada à

Faculdade de Engenharia de Ilha Solteira - UNESP,

visando à obtenção do título de "Livre-Docente",

por

João Carlos Silos Moraes

1210000869

Ilha Solteira - S.P.
Dezembro/1.994

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Aquisição Doação Nov. 044/95 - NRD 17/95

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REGISTRO Ailza
AQUISIÇÃO Doação R$ 10,00 Autor
CLASSIFICAÇÃO Te. 869

1210000869

Suporte Finaceiro: CNPq, FAPESP e FUNDUNESP

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RESUMO

Nos últimos 40 anos, importantes avanços foram alcançados no conhecimento espectroscópico do metanol e seus isótopos. Com o aprimoramento das várias técnicas espectroscópicas, utilizadas para a obtenção de dados de absorção no Infravermelho (IR) e Infravermelho Longínquo (FIR) e de emissão laser na região FIR, têm se obtido um crescente número de informações a alta resolução destas moléculas. Consequentemente, isto tem possibilitado a realização de investigações sistemáticas destes dados e um melhor conhecimento espectroscópico de moléculas tipo metanol. Por outro lado, o avanço tecnológico dos micro-computadores, a introdução de novas linguagens computacionais e "softwares", permitiram o desenvolvimento de pacote de programas computacionais que agilizaram a análise dos dados espectroscópicos destas moléculas.

Neste trabalho, descrevemos os procedimentos utilizados na análise sistemática de espectros de absorção a Transformada de Fourier, a média e a alta resolução, de moléculas tipo metanol e os resultados associados a nossa contribuição, no trabalho de "assignment" (identificação dos números quânticos envolvidos em uma transição) de transições IR e FIR do metanol (CH_3OH) e do isótopo $^{13}CH_3OH$. Este trabalho envolve a colaboração de grupos de outras 4 universidades e conta com o apoio financeiro do CNPq, FAPESP e FUNDUNESP.

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INTRODUÇÃO

A primeira investigação experimental com o metanol foi realizada por Borden and Barker [1], em 1939, e o primeiro tratamento teórico extensivo foi feito por Koehler e Dennison [2], em 1940. No inicio, o interesse surgiu principalmente por razões teóricas; o CH_3OH é uma molécula simples, exibindo uma rotação interna impedida. A partir de l970, o interesse espectroscópico do metanol e seus isótopos aumentou muito, após a realização, por Chang e Bridges [3], do primeiro laser molecular através do bombeamento óptico. Hoje, o metanol e seus isótopos são os meios ativos mais ricos e eficientes na geração de radiações laser na região FIR (infravermelho Longínquo) [4-5]. Junto a este crescimento de novas fontes laser FIR, avanços também ocorreram no desenvolvimento de novas técnicas de espectroscopia a alta resolução, tais como: Espectroscopia a Transformada de Fourier, de Absorção e Emissão Saturada, Fotoacústica e Stark. Estas novas técnicas contribuiram para a obtenção de um grande número de dados, associados tanto à absorção quanto à emissão laser, e, consequentemente, a um maior conhecimento espectroscópico destas moléculas.

Nos últimos anos, com o desenvolvimento tecnológico dos espectrômetros a Transformada de Fourier, espectros contínuos varrendo regiões desde o visível até o infravermelho longínquo, com resoluções há pouco tempo não imagináveis, têm sido medidos. Como exemplo, o espectrômetro da Bruker da Universidade de Giessen, Alemanha, fornece espectros contínuos do IR ao FIR, a uma resolução de $2\ 10^{-3}\ cm^{-1}$. A disponibilidade destes espectros contínuos a alta resolução tem permitido o desenvolvimento de trabalhos sistemáticos de "assignment" (identificação dos números

quânticos dos níveis de energia envolvidos numa transição) e, consequentemente, a identificação de um número muito grande de linhas de absorção destas moléculas. Este tipo de trabalho tem despertado o interesse dos Astrofísicos, uma vez que foi detectada a presença do metanol na região interestelar, especificamente na constelação de Orion [6]. Desta forma, a disponibilidade de um maior número de transições identificadas do metanol e seus isótopos, na literatura, é imprescindível para a interpretação e a identificação dos espectros IR e FIR, oriundos do espaço interestelar

Neste trabalho, descrevemos os procedimentos utilizados na análise sistemática de espectros de absorção a Transformada de Fourier, a média e a alta resolução, de moléculas tipo metanol e, resultados associados a nossa contribuição no trabalho de "assignment" de transições IR e FIR do metanol (CH_3OH) e do isótopo $^{13}CH_3OH$. Este trabalho envolve a colaboração de grupos de outras 4 universidades: Universidade de Campinas, Grupo de Lasers e Aplicações do Departamento de Eletrônica Quântica do Instituto de Física "Gleb Wataghin"; Università di Pisa (grupo GNSM), Pisa - Itália; Justus Liebig University of Giessen - Germany; University of New Brunswick, Fredericton, New Brunswick - Canadá. A implantação deste tipo de análise, aqui no Brasil, viabilizou-se através dessa colaboração interinstitucional e da oportunidade que tivemos, durante o curso de doutorado, de trabalhar, durante um período, com o grupo pisano.

CAPÍTULO 1

ASPÉCTOS TEÓRICOS

Para um melhor entendimento dos resultados obtidos no trabalho desenvolvido, faremos, neste capítulo, uma breve descrição sobre a molécula metanol, o modelo téorico mais completo que fornece as energias dos níveis vibro-roto-torsionais, as regras de seleção e representação dos níveis de energia. No próximo capítulo, descreveremos o procedimento utilizado na investigação de espectros de absorção de moleculas tipo metanol.

A MOLÉCULA TIPO METANOL

O metanol é uma molécula levemente assimétrica, composta de 6 átomos, cuja estrutura de equilíbrio é apresentada na figura 1.1. Ela tem 12 modos vibracionais e apresenta um grau de liberdade interno de rotação. O grupo hidroxílico (O-H) tem três posições de igual energia, com respeito ao grupo metílico (CH_3). O grupo O-H pode rodar em torno do eixo de quase simetria da molécula, cuja rotação está sujeita a uma barreira de potencial (figura 1.2), triplamente degenerada, com altura aproximadamente de 380 cm^{-1}, no estado vibracional fundamental. O potencial de impedimento surge devido à interação entre os átomos de hidrogênio do grupo metílico e o hidrogênio do grupo hidroxílico. Este grau de liberdade de rotação interna impedida (torsão) faz que a molécula apresente um rico e complexo espectro rotacional. A molécula também apresenta consideráveis componentes de dipólo elétrico permanente, tanto paralelamente ($\mu_{||}$ = 0.9 Debye) quanto perpendicularmente ($\mu_{\perp}$ = 1.4 Debye) ao seu eixo de quase simetria. Como consequência da existência do grau de liberdade interno e das componentes de dipólo elétrico, as regras de seleção são menos restritivas, quando comparadas, por exemplo, a moléculas do tipo “pião simétrico”.

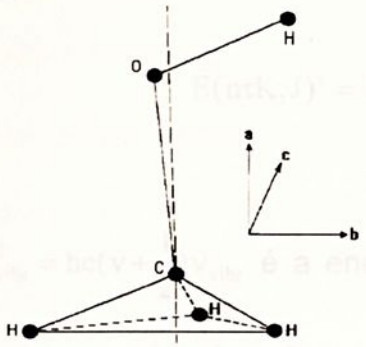


Fig. 1.1: Estrutura de equilíbrio do metanol (CH_3OH).

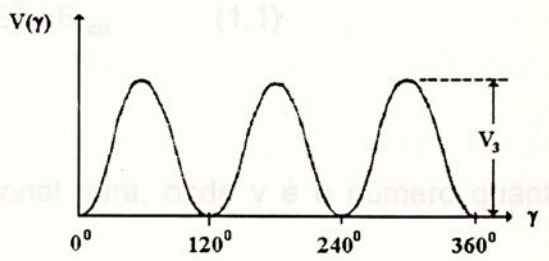


Fig. 1.2: Potencial de Impedimento, $V_1 = 380\ cm^{-1}$.

MODELO VIBRO-ROTO-TORSIONAL

O modelo mais completo existente para o cálculo da estrutura de níveis de energia vibro-roto-torsional de moléculas tipo metanol foi desenvolvido durante vários anos, com notável contribuição dada por Dennison [7,8] e Lees [9], e seus respectivos colaboradores.

Neste modelo, a Hamiltoniana de ordem zero é escrita como a soma de três Hamiltonianas, $H_{RS}^0 + H_T^0 + H_{vibr}^0$, que descrevem as contribuições de três tipos de movimento molecular: rotação da molécula por inteiro; rotação interna impedida ou torsão; e, vibração pura. Efeitos devido à leve assimetria da molécula e à distorção centrífuga associada à rotação interna são considerados posteriormente e são tratados como pertubação, usando as funções de onda de ordem zero como base para a sua determinação.

Os autovalores de energia da Hamiltoniana total, $H = H^0_{vibr} + H^0_{RS} + H^0_T + H'_{pert}$, são dados por

$$E(n\tau K,J)^{\nu} = E^0_{vibr} + E^0_{RS} + E^0_T + E'_{pert} \qquad (1.1)$$

onde:

1- $E^0_{vibr} = hc(v + \frac{1}{2})\nu_{vibr}$ é a energia vibracional pura, onde v é o número quântico vibracional e ν_{vibr} é a frequência de vibração, que é da ordem de 1000 cm^{-1} para o modo vibracional C-O stretching.

2- $E^0_{RS} = \frac{1}{2}(B+C)[J(J+1)] + (A - \frac{B+C}{2})K^2 - D_{JJ}[J(J+1)]^2 - D_{JK}[J(J+1)]K^2 - D_{KK}K^4$ é a energia de um rotor simétrico rígido, onde J é o número quântico momento angular rotacional e K sua componente ao longo do eixo de quase simetria da molécula. A, B e C são constantes efetivas de rotação e são funções dos momentos e produtos de inércia da molécula [8]. Os termos de coeficientes D_{JJ}, D_{JK} e D_{KK} representam a distorção centrífuga à rotação externa.

3- $E^0_T = F\langle P^2_\gamma \rangle + \frac{1}{2}V_3\langle 1 - \cos 3\gamma \rangle$ é a energia associada à torsão, ou seja, à rotação interna impedida, onde $\langle\ \rangle$ indica o valor médio; P_γ é o momento angular torsional canonicamente conjugado; e, F é uma constante efetiva de rotação, que também é função dos tensores de inércia da molécula [8]. Os autovalores de E^0_T dependem de três número quânticos (n, τ, K), onde n é o número quântico que mede a torsão. O número quântico τ tem três valores (1, 2 e 3) e surgem da natureza de tripla simetria do

potencial de impedimento. Este potencial pode ser expandido em uma série de Fourier em 3γ, onde γ é o ângulo que mede a rotação do grupo hidroxílico. O potencial pode ser aproximado a expressão $V_\gamma = V_3(1-\cos 3\gamma)$.

Uma outra forma de representar os valores do número quântico τ é "batizando" estes valores pelas espécies do grupo de ponto C_3 (A, E_1 e E_2). A relação entre estes dois equivalentes sistemas de representação é dada por

$$\tau + K = 3N \rightarrow E_1$$
$$\tau + K = 3N + 1 \rightarrow A$$
$$\tau + K = 3N + 2 \rightarrow E_2$$

onde N=0,1,2,... .

4-

$$E'_{pert} = \frac{1}{2}V_6\langle 1-\cos 6\gamma\rangle + G_v[J(J+1)]\langle P_\gamma^2\rangle + L_v[J(J+1)]K\langle P_\gamma\rangle +$$
$$k_1K^3\langle P_\gamma\rangle + k_2K^2\langle P_\gamma^2\rangle + k_3K\langle P_\gamma^3\rangle + k_4\langle P_\gamma^4\rangle + k_5K^2\langle 1-\cos 3\gamma\rangle +$$
$$k_6K\langle P_\gamma(1-\cos 3\gamma)\rangle + k_7K\langle P_\gamma^2(1-\cos 3\gamma)\rangle + F_v[J(J+1)]\langle 1-\cos 3\gamma\rangle + \Delta E$$

é a energia associada aos efeitos de pertubação, devido à distorção centrífuga torsional, à distorção centrínfuga da barreira de potencial, ao desvio do potencial de uma senóide perfeita e à assimetria da molécula. k_1 a k_7 são as constantes empíricas de Kirtimam [10], e ΔE mede o "spliting" que ocorre devido a assimetria da molécula. A assimetria somente remove a degenerescência de estados A, dando origem a dupletos K, como no caso de um rotor simétrico. A degenerescência entre estados E_1 e E_2 não é removida, porque a hamiltoniana não contem elementos que conectam estados

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pertencentes a simetria diferentes. O "spliting" entre membros de um dupleto K aumenta com J de acordo com:

$$\Delta E = \frac{(J+K)!}{(J-K)!}[S(K) + J(J+1)T(K)] \qquad (1.2),$$

mas os coeficientes S(K) e T(K) caem rapidamente com o aumento de K. Para distingüir os membros de um dupleto, Ivash-Dennison [7] os convencionou por + e –.

Se as quatros expressões das energias, ~~acima~~ anteriormente descritas, forem substituidas na equação 1.1, os autovalores de energia para a molécula metanol serão dados por

$$E(n\tau K,J)^{v} = E^{v}_{vibr} + W^{v}(n\tau K) + B^{v}(n\tau K)[J(J+1)] - D^{v}(n\tau K)[J(J+1)]^2 + \Delta E(K,J) \qquad (1.3)$$

Para a utilização desta equação, que fornece as energias vibro-roto-torsional, é necessário o conhecimento prévio de quase 20 parâmetros moleculares para cada estado vibracional. A precisão do espectro gerado por (1.3) é extremamente boa para números quânticos baixos (J<10). Isto ocorre devido ao fato de as constantes moleculares disponíveis mais precisas terem sido avaliadas a partir de dados experimentais, na região microondas, onde as transições envolvem somente momentos angulares baixos. Por outro lado, certos tipo de interações - tais como as ressonâncias de Fermi e de Coriolis, que são observadas nestas moléculas - não são consideradas neste modelo.

Vale ressaltar que este modelo, apesar de sua precisão, tem sido eficaz e muito utilizado para a identificação de linhas de emissão laser FIR, principalmente quando as transições ocorrem entre dois estados rotacionais, pertencentes ao estado torsional

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fundamental e pertencentes aos mesmos estados vibracionais. A sua utilização torna-se dificil, quando se deseja analisar linhas de absorção ocorrendo entre estados vibracionais diferentes, ou mesmo, entre estados torsionais diferentes dentro do mesmo estado vibracional.

REGRAS DE SELEÇÃO

Como moléculas tipo metanol têm componentes de dipólo elétrico permanente, tanto paralela quanto perpendicular ao eixo de quase simetria, as transições de dipólo elétrico podem ser classificadas como:

Transições tipo-a:

$\Delta J = -1, 0, 1$ $\Delta K = 0$ $\Delta n = 0$

Transições tipo-b:

$\Delta J = -1, 0, 1$ $\Delta K = \pm 1$ $\Delta n =$ qualquer

Transições de ambos os tipos só podem ocorrer entre estados de mesma simetria A, E_1 ou E_2. Para transições envolvendo níveis desdobrados A^+ e A^-, existe uma regra adicional [9] para a convenção das componentes do dupleto.

$$\pm \leftrightarrow \pm \qquad |\Delta J| = 1 \text{ e } |\Delta K| = 0, 1$$
$$\pm \leftrightarrow \mp \qquad |\Delta J| = 0 \text{ e } |\Delta K| = 0, 1$$

NOTAÇÃO UTILIZADA PARA OS NÍVEIS DE ENERGIA

Uma vez que transições só podem ocorrer entre estados pertencentes a mesma espécie de simetria A, E_1 ou E_2, os números quânticos envolvidos em uma transição particular são convenientemente representados pela notação

$$(n'',K'',J'')^{v''}\,\mathrm{Symm} \rightarrow (n',K',J')^{v'}$$

onde as quantidades (') referem-se ao estado superior da transição e as quantidades (") referem-se ao estado inferior. Como mencionado anteriormente, v, n, J e K são, respectivamente, os números quânticos vibracional, torsional, momento angular e sua componente ao longo do eixo de quase simetria da molécula. Symm representa a espécie de simetria A, E_1 ou E_2, comum aos níveis inferior e superior da transição. Seguindo recomendação de Lees [11], ambas simetrias, E_1 e E_2, são "batizadas" por E, designando valores de K positivos pertencente à simetria E_1 e por K negativos, pertencente à simetria E_2. Na identificação das linhas afetadas por K-doubling, um sinal – ou +, de acordo com a convenção de Ivash-Dennison [7], é colocado em seguida ao valor de K dos estados inferior e superior.

CAPÍTULO 2

PROCEDIMENTO DE "ASSIGNMENT" UTILIZADO NA INVESTIGAÇÃO DE ESPECTROS CONTÍNUOS A TRANSFORMADA DE FOURIER

O "assignment" de linhas de absorção por comparação das frequências experimentais com as calculadas (obtidas através da equação 1.3), é dificil e muitas vezes impossível de ser obtido, particularmente para transições envolvendo números quânticos rotacionais altos (J>10), números quânticos torsionais n>2, excitações simultâneas de vibração e torsão. Isto ocorre devido à falta, pelo menos até o momento, de um programa computacional capaz de diagonalizar completamente a Hamiltoniana do metanol. Desta forma, de acordo ao modelo descrito no capítulo anterior, os estados vibracionais diferentes são tratados separadamente, diagonalizando primeiro a Hamiltoniana de rotação interna, considerando a molécula como um rotor simétrico e usando parâmetros moleculares dependentes do estado vibracional. Em seguida, adiciona-se a energia de rotação total e trata-se os efeitos de assimetria e de distorção centrífuga por métodos de pertubação. Consequentemente, interações entre níveis pertencentes a diferentes estados vibracionais, tais como ressonância de Fermi e de Coriolis [12,13], não são levadas em consideração.

No entanto, a precisão computacional do modelo vibro-roto-torsional é extremamente boa para números quânticos baixos. Esta boa precisão pode ser explorada para o desenvolvimento de grupos de níveis de energia que compartilham os mesmos números quânticos (v, n, K e Symm), exceto J, em série de Taylor em [J(J+1)], proposto independentemente por Henningsen [14] e Picket [15], como

$$E(q,J) = \sum_{m=0} a_m(q)[J(J+1)]^m \pm \frac{(J+K)!}{2(J-K)!}[S(K)+J(J+1)T(K)] \quad (2.1)$$

onde q contem todos os números quânticos comuns (v, n, K e Symm). Os têrmos S(K) e T(K) descrevem o "spliting" devido à assimetria, que está presente somente em níveis pertencentes a simetria A.

No procedimento, a idéia é a de identificar, separadamente, grupos de linhas com níveis superiores compartilhando os mesmos números quânticos (v', n', K') e níveis inferiores compartilhando os mesmos números quânticos (v", n", K"). Para iniciar o trabalho de "assignment" de espectros de absorção a Transformada de Fourier de uma molécula tipo metanol, utiliza-se linhas identificadas, envolvendo baixos valores de J. Essas linhas foram obtidas por simples comparação entre espectro calculado e experimental. O espectro calculado é gerado através do modelo vibro-roto-torsional, apresentado no capítulo anterior, uma vez que ele se ajusta bem para baixos valores de J. Um programa computacional, chamado aqui por "fit", faz então a primeira estimativa dos coeficientes a_m (bem como S(K) e T(K), quando necessário). Nesta avaliação, o programa, através do método do mínimo quadrado para os níveis inferiores e superiores, procura os melhores valores dos coeficientes que levam a um melhor ajuste com o espectro experimental. Quando disponível, a frequência de transições identificadas na região microondas também são inseridas no programa para primeira avaliação dos coeficientes de Taylor. A partir dos valores dos coeficientes avaliados, o programa extrapola novas frequências de transições, com valores de J imediatamente maiores, as quais são procuradas no espectro experimental. Quando as linhas extrapoladas são encontradas, suas frequências são então introduzidas no programa, juntamente com aquelas previamente usadas, para que seja aumentada a precisão dos coeficientes da expansão. O procedimento, então, se repete

iterativamente. O ajuste é realizado simultaneamente com transições dos ramos P, Q e R (ΔJ = -1, 0 e 1, respectivamente), formando automaticamente "loops" fechados de transições, assegurando um "assignment" de alta confiabilidade. Como exemplo de formação de "loops", a figura 2.1 abaixo, mostra todas as transições permitidas entre níveis rotacionais de dois níveis torsionais (n e n+1) diferentes. Vários "loops" são formados, e as frequências das transições envolvidas em cada "loop" satisfazem uma combinação de energia (no "loop" a"c'd', c' = d' - a"). Note que cada nível rotacional participa de várias transições, levando, desta forma, a uma melhor determinação de sua energia e, como consequência, a um melhor "assignment" das transições envolvidas.

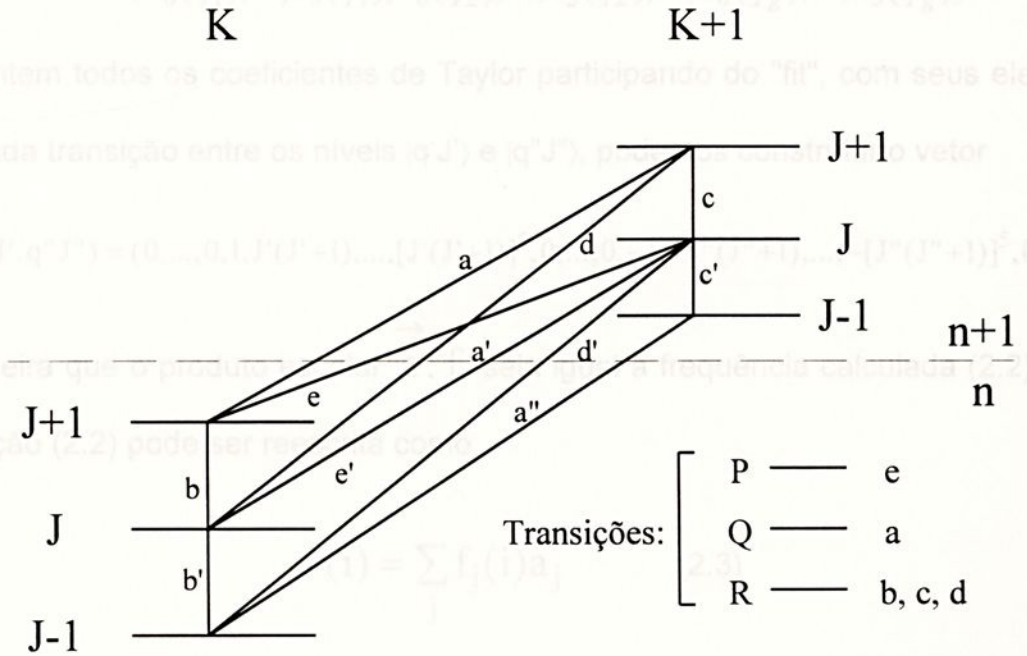


Fig. 2.1: "Loops" de transições permitidas. As linhas a pertencem ao ramo Q (ΔJ=0), K→K+1; b e c ao ramo R (ΔJ=1), K→K; d ao ramo R, K→K+1; e ao ramo P (ΔJ=-1), K→K+1.

A MATRIZ "FIT"

A frequência de uma linha correspondente a um transição, ocorrendo entre os estados $|q'J'\rangle$ e $|q"J"\rangle$, é

$$\nu(q'J',q"J") = E(q'J') - E(q"J")$$

$$\nu(q'J',q"J") = \sum_{m=0} a_m(q')[J'(J'+1)]^m - \sum_{m=0} a_m(q")[J"(J"+1)]^m \qquad (2.2)$$

onde os têrmos associados ao K "spliting" (segundo têrmo de 2.1) não foram, aqui, levados em consideração, somente para simplificar os próximos equacionamentos.

Se estamos fazendo o "fit" das transições que ocorrem entre os grupos de níveis "batizados" pelo conjunto de números quânticos q_1, q_2, q_3, ..., q_g, podemos construir o vetor

$$\vec{a} = (a_0(q_1),...,a_5(q_1),a_0(q_2),...,a_5(q_2),...,a_0(q_g),...,a_5(q_g))$$

que contem todos os coeficientes de Taylor participando do "fit", com seus elementos. Para cada transição entre os níveis $|q'J'\rangle$ e $|q"J"\rangle$, podemos construiur o vetor

$$\vec{f}(q'J',q"J") = (0,...,0,1,J'(J'+1),...,[J'(J'+1)]^5,0,...,0,-1,-J"(J"+1),...,-[J"(J"+1)]^5,0,...,0)$$

de maneira que o produto escalar $\vec{a} \cdot \vec{f}$ seja igual a frequência calculada (2.2). Assim, a equação (2.2) pode ser reescrita como

$$\nu(i) = \sum_j f_j(i)a_j \qquad (2.3)$$

onde i está associado à i-enésima linha, e o índice j varre sobre todos os parâmetros. O vetor $\vec{a}$ é o mesmo para todas as linhas, e o vetor $\vec{f}$ é particular para a i-enésima

linha. Os elementos do vetor $\vec{a}$, isto é, os coeficientes de Taylor para todos os grupos de níveis participando do "fit", são determinados de maneira que a expressão

$$\chi^2 = \sum_i [\frac{\sum_j f_j(i) a_j - \nu_i^{exp}}{\varepsilon_i}]^2 \qquad (2.4)$$

atinja seu valor mínimo. Na equação (2.4), ν_i^{exp} é a frequência experimental da i-enésima linha. Assim, nesta condição devemos ter

$$\frac{\partial \chi^2}{\partial a_\kappa} = 0 \text{ para qualquer } \kappa, \text{ isto é}$$

$$2\sum_i [\frac{\sum_j f_j(i) a_j - \nu_{exp}}{\varepsilon_i}] \frac{f_\kappa(i)}{\varepsilon_i} = 0 .$$

Isto leva a

$$\sum_i \sum_j \frac{a_j f_j(i) f_\kappa(i)}{\varepsilon_i^2} = \sum_i \frac{f_\kappa(i) \nu_i^{exp}}{\varepsilon_i^2}$$

$$\sum_j a_j \sum_i \frac{f_j(i) f_\kappa(i)}{\varepsilon_i^2} = \sum_i \frac{f_\kappa(i) \nu_i^{exp}}{\varepsilon_i^2}$$

$$\sum_j a_j F_{\kappa j} = b_\kappa \qquad (2.5)$$

onde o elemento de matriz $F_{\kappa j}$ é

$$F_{\kappa j} = \sum_i \frac{f_j(i) f_\kappa(i)}{\varepsilon_i^2} \qquad (2.6)$$

e o elemento b_κ é

$$b_\kappa = \sum_i \frac{f_\kappa(i)\nu_i^{exp}}{\varepsilon_i^2} \qquad (2.7)$$

A equação (2.5) gera um conjunto de N equações lineares com N incógnitas, onde N é o número total de coeficientes de Taylor.

O PROGRAMA COMPUTACIONAL

O programa computacional está escrito em linguagem C, com algumas funções em linguagem Assembler 386/387, e pode ser rodado em um computador compatível IBM-AT, operando no sistema DOS. O programa foi desenvolvido pelo Prof. Giovani Moruzzi, do grupo pisano, que tem, nos últimos anos, realizado várias modificações no mesmo, no sentido de agilizar o trabalho sistemático de "assignment".

O programa intitulado "fit" ajusta, simultaneamente, os coeficientes de Taylor de até 60 grupos de níveis usando até 30000 linhas experimentais identificadas. Uma das modificações importantes realizadas neste programa "fit" foi a introdução de uma rotina que ajusta a linha de absorção experimental com a soma de duas ou mais (até 10) funções "sinc" ou Lorenztiana ou Gaussiana, de largura, posição e amplitude variáveis. Quando uma linha extrapolada pelo programa coincide com linhas experiementais superpostas, não resolvidas pelo espectrômetro, a rotina permite a determinação das frequências das linhas superpostas. Desta forma, a frequência experimental introduzida no programa para ajuste dos coeficientes de Taylor é bem mais próxima daquela extrapolada pelo programa. Como exemplo, a figura 2.2 mostra linhas experimentais

superpostas (representada por •), as quais não foram resolvidas devido ao limite de resolução do espectrômetro. Consequentemente, o "peak-finder" define como sendo uma só linha e fornece somente a frequência da linha de maior intensidade (da esquerda). Uma linha extrapolada pelo programa tem frequência mais próxima à linha experimental da direita, e a frequência experimental disponível (da linha da esquerda) está muito longe da verdadeira. Neste caso, com a rotina foi feito um ajuste teórico destas linhas experimental superpostas, com 3 funções "sinc" (curvas pontilhadas), cuja soma está representada pela curva contínua, a qual se ajusta perfeitamente à curva experimental. Ressalta-se que a curva experimental também é contínua, mas foi aqui representada por pontos discretos somente para distingüi-la das demais. Após o ajuste, a rotina fornece a frequência dos máximos das três funções. Desta forma, esta rotina coloca as linhas superpostas à disposição para análise, com praticamente a mesma precisão das linhas isoladas (resolvidas pelo espectrômetro).

MÉTODO DE RYDBERG-RITZ

No procedimento acima, a avaliação dos coeficientes de Taylor (bem como de S e T, quando necessário) é feita através de um ajuste por mínimo quadrado das linhas já identificadas. Estes coeficientes então são usados para determinar as energias dos níveis envolvidos nas transições identificadas e, por extrapolação, para as energias de outros níveis com J sucessivos. Isto permite predizer as frequências

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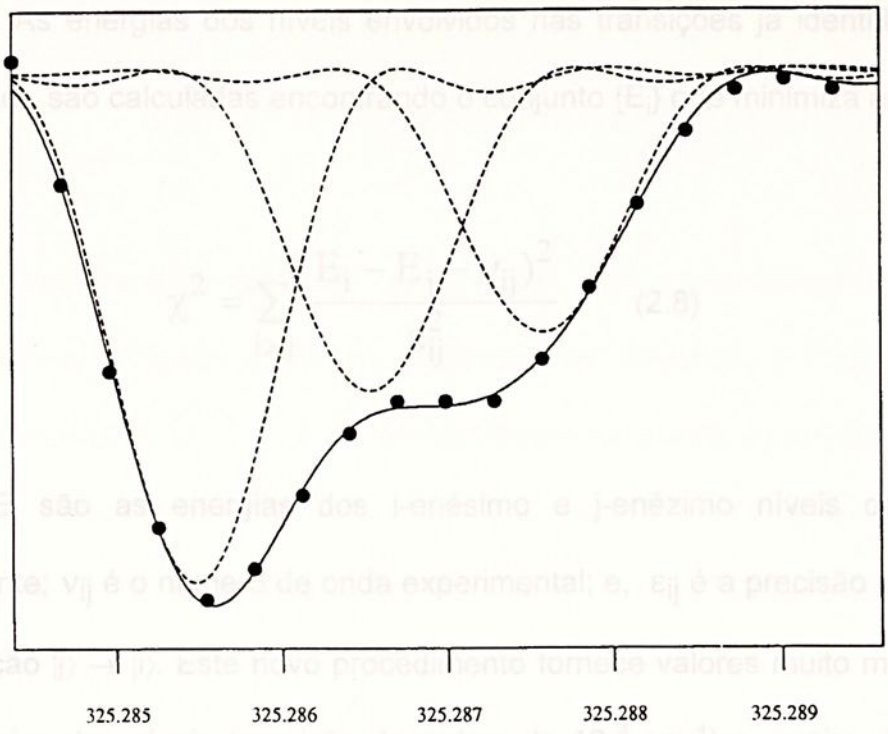


Fig. 2.2: Ajuste teórico (linha contínua) de uma linha experimental (•) com três funções "sinc" (linhas pontilhadas).

correspondentes a novas transições entre os níveis avaliados ou extrapolados. Este procedimento tem funcionado bem, quando uma série de transições (compartinhando os mesmos números quânticos, exceto J) ocorre entre grupos de níveis não pertubados. A maioria das sequências de níveis "pertubados" (por ressonância de Fermi e/ou por interação de Coriolis) não se comportam bem na expansão [J(J+1)], e isto muitas vezes impossibilita seguir a sequência de linhas até valores altos de J. Estas dificuldades levaram ao desenvolvimento de um novo programa computacional de "assignment" (desenvolvido pelo Prof. Moruzzi) [16], intitulado "RITZ", onde as energias dos níveis conectados pelas transições identificadas não são aproximadas pela expansão de Taylor, mas sim diretamente pelo princípio de combinação de

Rydberg-Ritz. As energias dos níveis envolvidos nas transições já identificadas, pelo método anterior, são calculadas encontrando o conjunto $\{E_i\}$ que minimiza a expressão

$$\chi^2 = \sum_{i>j} \frac{(E_i - E_j - \nu_{ij})^2}{\varepsilon_{ij}^2} \qquad (2.8)$$

onde E_i e E_j são as energias dos i-enésimo e j-enézimo níveis da molécula, respectivamente; ν_{ij} é o número de onda experimental; e, ε_{ij} é a precisão experimental para a transição $|j\rangle \rightarrow |i\rangle$. Este novo procedimento fornece valores muito mais precisos para as energias dos níveis (precisão da ordem de 10^{-4} cm^{-1}) e, assim, permite uma imediata identificação de novas transições ocorrendo entre grupo de níveis já identificados. As frequências extrapoladas ainda são geradas pela expansão de Taylor, ou extrapolação parabólica, somente para predizer transições, conectando um novo nível, até então não envolvido em qualquer transição já identificada. Uma das grandes vantagens deste novo programa "Ritz" sobre o "fit" é que, com ele, é relativamente fácil seguir uma série de transições envolvendo grupo de níveis pertubados, cuja série não tem comportamento usual de uma expansão [J(J+1)].

CAPÍTULO 3

DETALHES DOS ESPECTROS

Para o trabalho sistemático de "assignment", com o procedimento descrito no capítulo 2, tem-se utilizado espectros contínuos de absorção a Transformada de Fourier a alta resolução (2 10^{-3} cm^{-1}). Simultâneamente a esta investigação, análises também foram feitas utilizando espectros de absorção a Transformada de Fourier de média resolução (0.12 cm^{-1}) e espectro discreto a Laser a Diodo, a alta resolução (2 10^{-3} cm^{-1}).

MOLÉCULA $^{13}CH_3OH$

Os espectros a Transformada de Fourier com 2 10^{-3} cm^{-1} de resolução foram obtidos num espectrômetro Bruker do Physikalisch Chemisches Institut da Universidade de Giessen, Alemanha. Fonte e detector utilizados foram, respectivamente, lâmpada de Mercúrio e Bolômetro de Si a 4.2 K. A calibração dos espectros foi feita utilizando como referência linhas de H_2O, de Guelachvili e Rao [17]. A amostra foi mantida a uma pressão de 0.14 mbar (14 Pa ou 100 mTorr), para a região de 25 a 135 cm^{-1}, e 0.19 mbar (19 Pa ou 140 mTorr), para a região de 100 a 350 cm^{-1}. O comprimento do caminho óptico na amostra é de 300 cm. Como função de apodização utilizou-se a Boxcar, para o espectro de 25 a 135 cm^{-1}, e a Trapezoidal, para o de 100 a 350 cm^{-1}. A figura 3.1 mostra uma parte do espectro obtido com este espectrômetro.

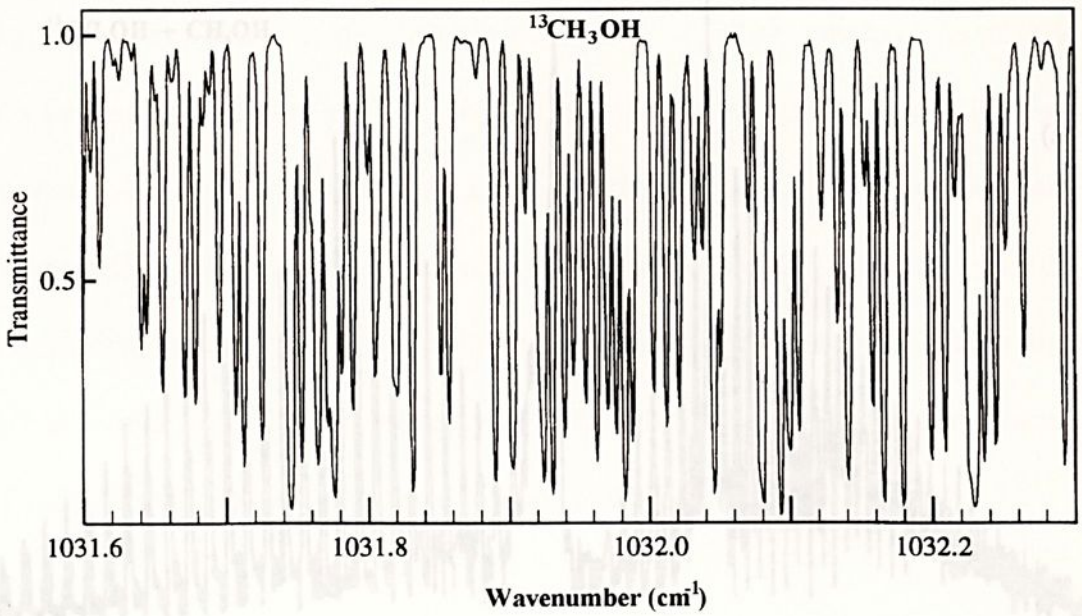


Fig. 3.1: Parte do espectro de absorção a Transformada de Fourier, a resolução 2 10^{-3} cm^{-1}, da molécula $^{13}CH_3OH$.

O espectro a Transformada de Fourier com resolução 0.12 cm^{-1} foi obtido num espectrômetro Nicolet 60SXB do Instituto de Química da Unicamp. Como função de apodização usou-se a Boxcar, tendo e a amostra se mantido a uma pressão de 2 Torr, na temperatura ambiente. O caminho óptico na amostra é de 10 cm. Com esta resolução, foi possível resolver a banda vibracional C-O stretching (fig. 3.2). O espectro do $^{13}CH_3OH$ (fig. 3.2a) indica uma contaminação com $^{12}CH_3OH$, devido ao grau de pureza da amostra, a qual foi eliminada (fig. 3.2b) através de "software", fazendo-se a subtração entre espectro do $^{13}CH_3OH$ contaminado e do $^{12}CH_3OH$.

Um espectro discreto (contínuo somente dentro de cada banda de emissão do laser a diodo) varrendo a região da banda vibracional C-O stretching foi obtido num Espectrômetro a Laser a Diodo da Spectra Physics, modelo SP5000, com uma

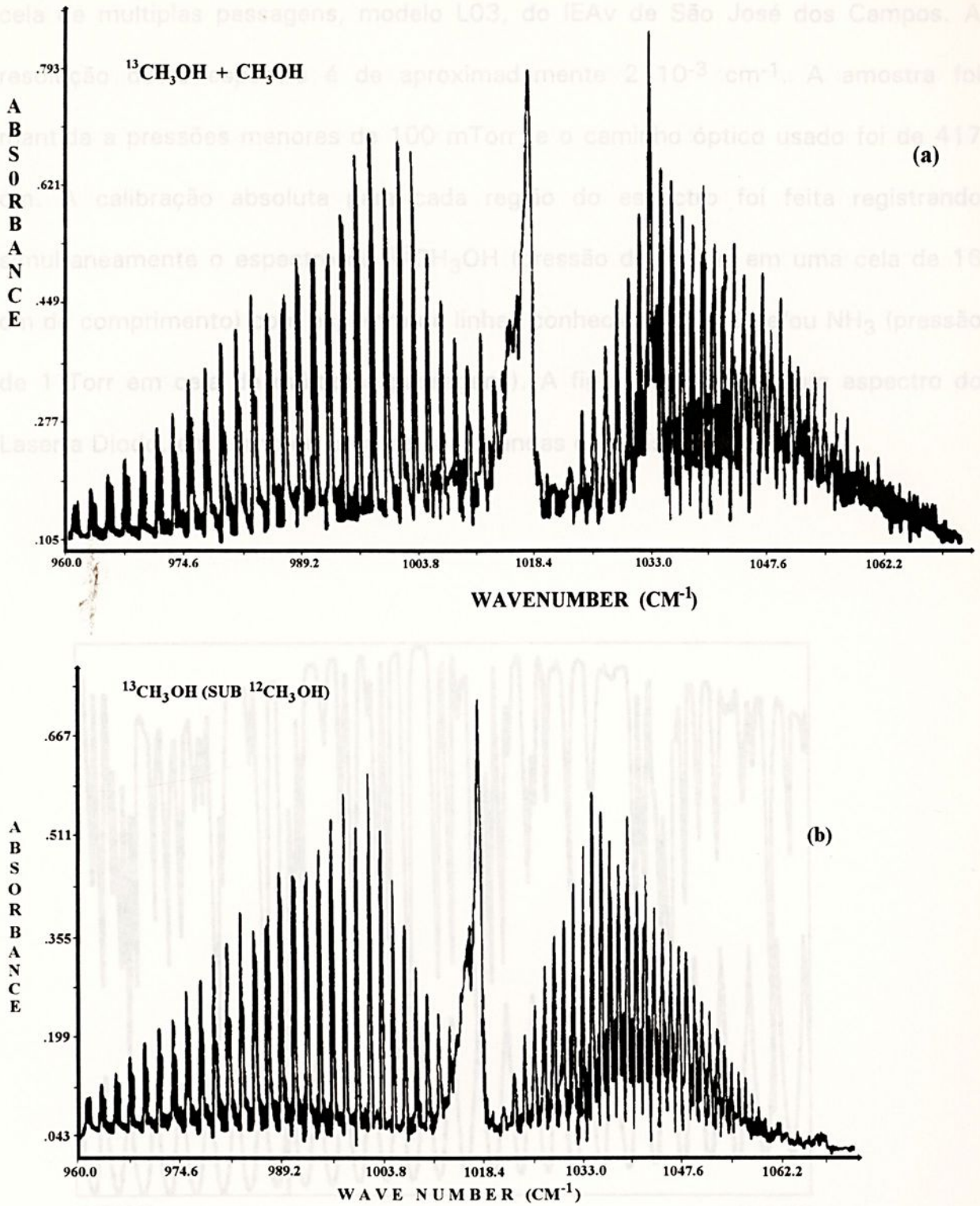


Figure 3.2 - Espectro a Transformada de Fourier de 0.12 cm^{-1} resolution. Mostra a estrutura P, Q, and R(J) esperada da banda C-O Stretching, associada à regra de seleção ΔJ= -1, 0, +1, característica de uma banda paralela. (a) - Indica a contaminação com o CH_3OH normal. (b) - Espectro Infravermelho de absorção do $^{13}CH_3OH$.

cela de multiplas passagens, modelo L03, do IEAv de São José dos Campos. A resolução deste espectro é de aproximadamente 2 10^{-3} cm^{-1}. A amostra foi mantida a pressões menores de 100 mTorr e o caminho óptico usado foi de 417 cm. A calibração absoluta para cada região do espectro foi feita registrando simultaneamente o espectro do $^{13}CH_3OH$ (pressão de 1 Torr em uma cela de 16 cm de comprimento) com espectro de linhas conhecidas do CO_2 e/ou NH_3 (pressão de 1 Torr em cela de múltiplas passagens). A figura 3.3 mostra um espectro do Laser a Diodo, em torno de uma de suas bandas de emissão.

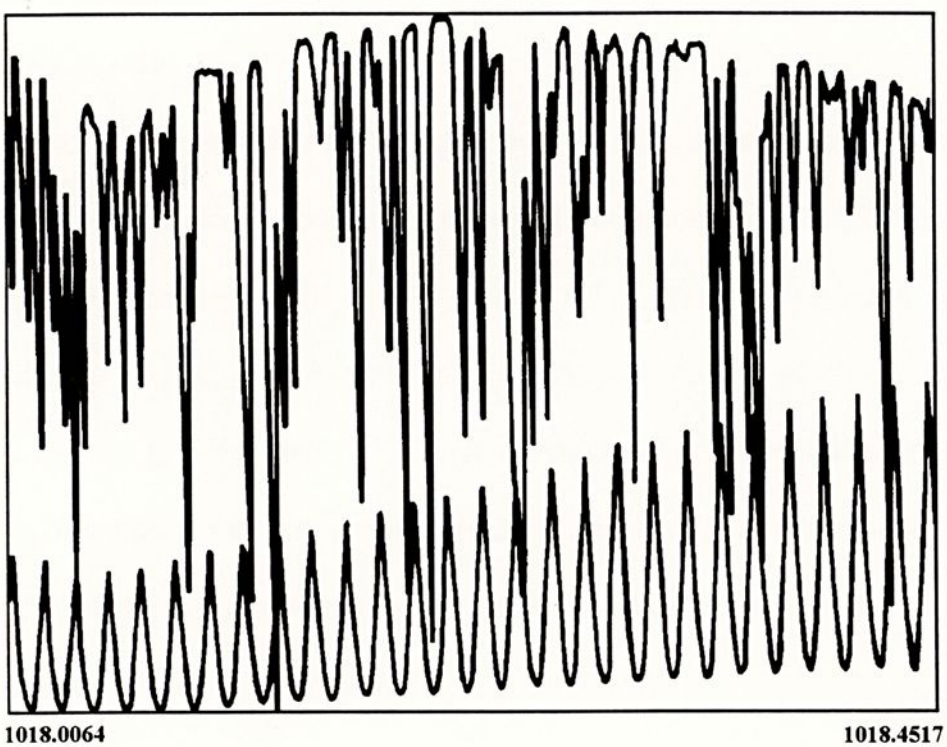


Fig. 3.3: Espectro a Laser a Diodo a resolução 2 x 10^{-3} cm^{-1}.

MOLÉCULA CH_3OH

O espectro de absorção completo do CH_3OH, de 30 a 1200 cm^{-1}, foi medido no espectrômetro Bruker do Physikalisch Chemisches Institut da Universidade de Giessen, Alemanha. O espectro foi calibrado usando uma seleção de linhas de H_2O, nesta região [17]. A amostra foi mantida a uma pressão de 0.5 mbar (50 Pa ou 370 mTorr) e o caminho ótico foi de 284 cm. A resolução nominal (1/máximo da diferença do caminho óptico) obtida foi de 0.0025 cm^{-1}, o que dá um FWHM (Full Width at Half Maximum) de 0.0015 cm^{-1}.

CAPÍTULO 4

RESULTADOS E DISCUSÕES

Os resultados obtidos estão apresentados em 2 partes: a primeira trata do trabalho sistemático de "assignment" com espectros de absorção a Transformada de Fourier a alta resolução, das moléculas CH_3OH e $^{13}CH_3OH$; enquanto a segunda trata da determinação do número quântico momento angular J dos multipletos principais, n=0, dos ramos P e R do modo vibracional C-O stretching da molécula $^{13}CH_3OH$.

INVESTIGAÇÃO SISTEMÁTICA DE "ASSIGNMENT"

Molécula $^{13}CH_3OH$

O trabalho sistemático de "assignment" de espectros a Transformada de Fourier do $^{13}CH_3OH$, utilizando o procedimento descrito no capítulo 2, foi iniciado em 1992, em Ilha Solteira. Iniciou-se com o programa "fit" e, para a primeira estimativa dos coeficientes de Taylor, utilizou-se linhas identificadas na região do microondas [18] e o espectro teórico gerado pelo modelo vibro-roto-torsional, discutido no capítulo 1. Os espectros analisados varrem a região de 25 a 350 cm^{-1}, cujas transições pertencem ao estado vibracional fundamental (v = 0). Assim, daqui para frente não utilizaremos mais o número quântico v na notação dos níveis de energia.

Os resultados obtidos até o momento estão representados nos diagramas da figura 4.1. Nestes diagramas, cada círculo representa um grupo de níveis compartilhando os mesmos números quânticos (v, n, K e Symm), exceto J. Os traços

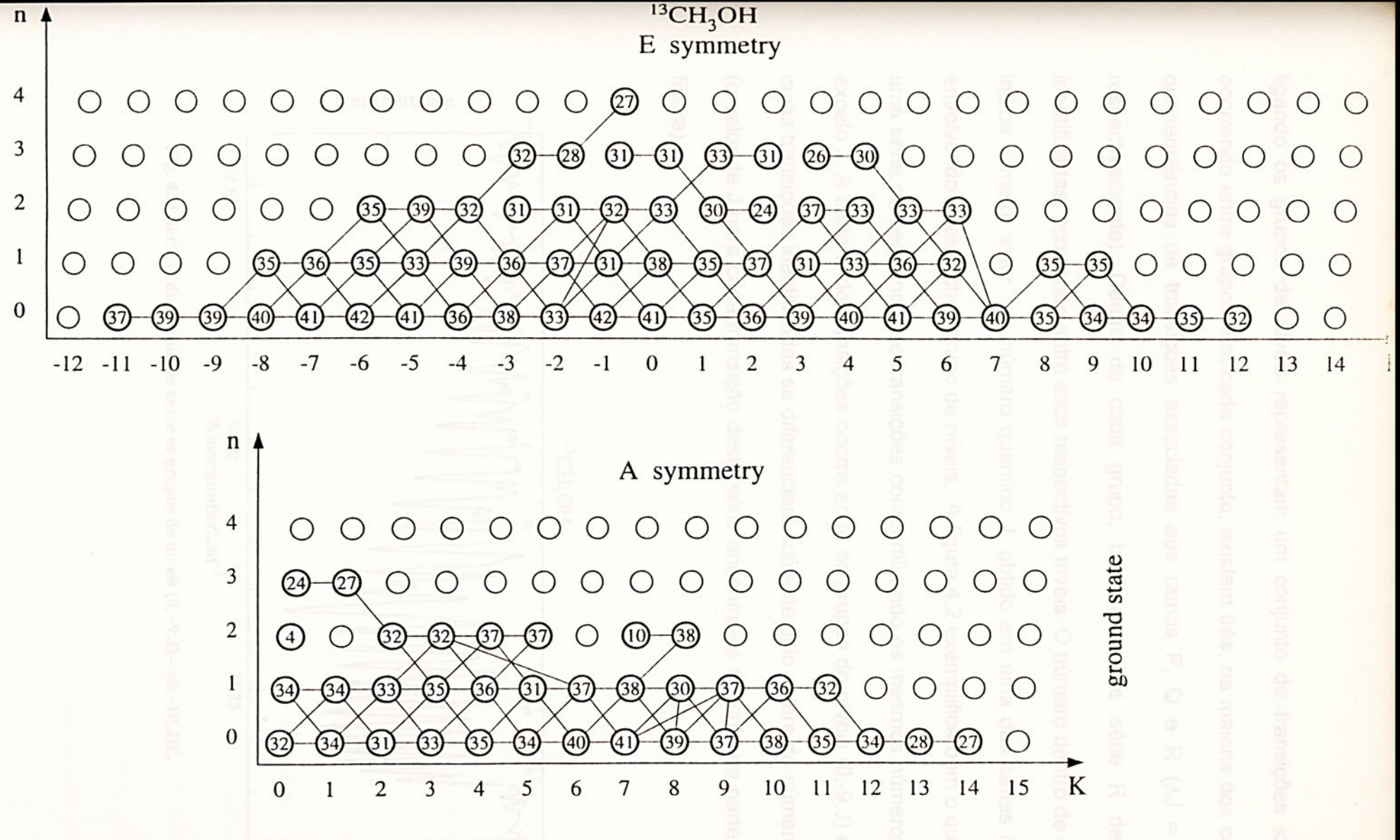


Fig.4.1: Diagrama representando grupos de níveis (círculos) compartilhando os mesmos números quânticos (Sim, v, n, K), exceto J. Os traços representam um conjunto (séries P, Q e R) de transições identificadas. O número dentro do círculo indica o máximo valor de J, obtido em uma das séries envolvendo o respectivo grupo de níveis.

ligando os grupos de níveis representam um conjunto de transições identificadas, ocorrendo entre grupos. Em cada conjunto, existem três, na maioria dos casos, séries ou sequências de transições associadas aos ramos P, Q e R (ΔJ = -1, 0 e 1, respectivamente). Dentro de cada grupo, também existe série R de transições identificadas, ocorrendo entre seus respectivos níveis. O número dentro de cada círculo indica o maior valor do número quântico J, obtido em uma das séries identificadas envolvendo o respectivo grupo de níveis. A figura 4.2 exemplifica bem o que vem a ser uma série ou sequência de transições compartilhando os mesmos números quânticos, exceto J. A série Q de transições ocorre entre os grupos de níveis (0,-9,J) e (0,-10,J)E, cujas transições identificadas se diferenciam somente pelo valore do número quântico J (o valor de J para cada transição desta série encontra-se descrito na parte superior da figura).

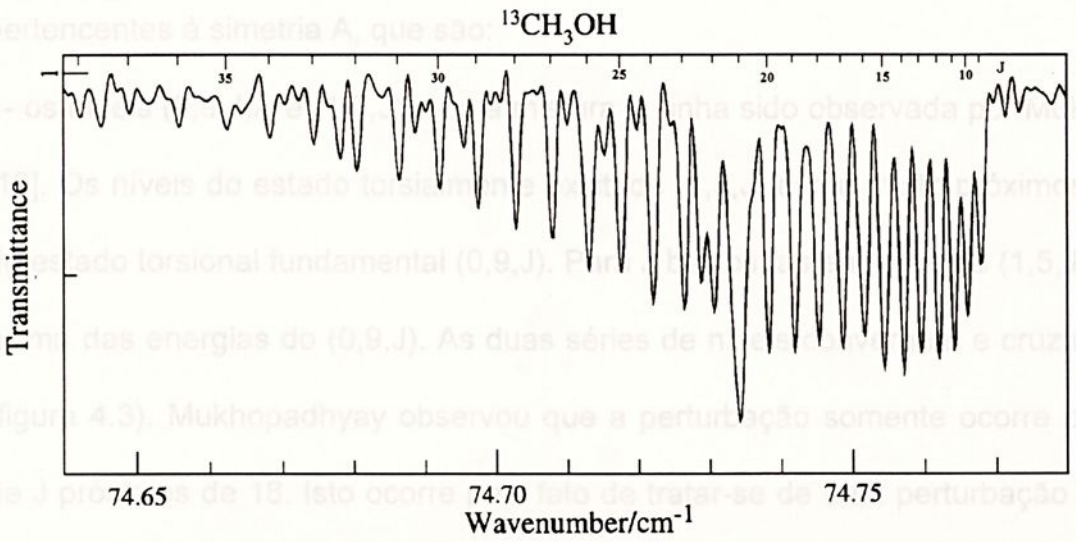


Fig. 4.2: Série Q de transições entre os grupos de níveis (0, -9,J)→(0, -10,J)E.

Até o momento, identificamos cerca de 13.500 transições de absorção (listagem no anexo B), sendo que destas, 5.500 pertencem à simetria A e 8.000 à simetria E. Todas as linhas identificadas contêm frequências na região de 25 a 350 cm^{-1} e pertencem ao estado vibracional fundamental, v=0. Como pode ser visto na figura 4.1, a maioria das séries identificadas é associada a transições com $\Delta n = 0$ e 1. A maioria das transições com $\Delta n > 1$ tem frequências maiores que 350 cm^{-1} (ainda não dispomos de espectros acima desta frequência).

Acidentalmente, devido à assimetria da molécula dois grupos de níveis poderão possuir energias muito próximas, provocando assim pertubações como ressonância de Fermi. Este tipo de pertubação foi observada, pela primeira vez, no CD_3OH, por Weber-Marker [12]. Como conseqüência desta mistura de níveis, há o favorecimento da ocorrência de transições "proibidas", as quais não são previstas pelas regras de seleção. Em nossa investigação, observamos a mistura de energia de grupos pertencentes à simetria A, que são:

1- os níveis (0,9,J)A e (1,5,J)A, cuja mistura já tinha sido observada por Mukhopadhyay [19]. Os níveis do estado torsialmente excitado (1,5,J) estão muito próximos dos níveis do estado torsional fundamental (0,9,J). Para J baixos, as energias do (1,5,J) iniciam-se acima das energias do (0,9,J). As duas séries de níveis convergem e cruzam em J=18 (figura 4.3). Mukhopadhyay observou que a perturbação somente ocorre para valores de J próximos de 18. Isto ocorre pelo fato de tratar-se de uma perturbação envolvendo níveis pertencentes a estados torsionais diferentes e com valores de K diferenciado de 4 (pertubação $\Delta K=4$) [19]. Mukhopadhyay, devido a esta perturbação, não conseguiu identificar transições pertencentes a séries envolvendo estes dois níveis, com J>18. Em

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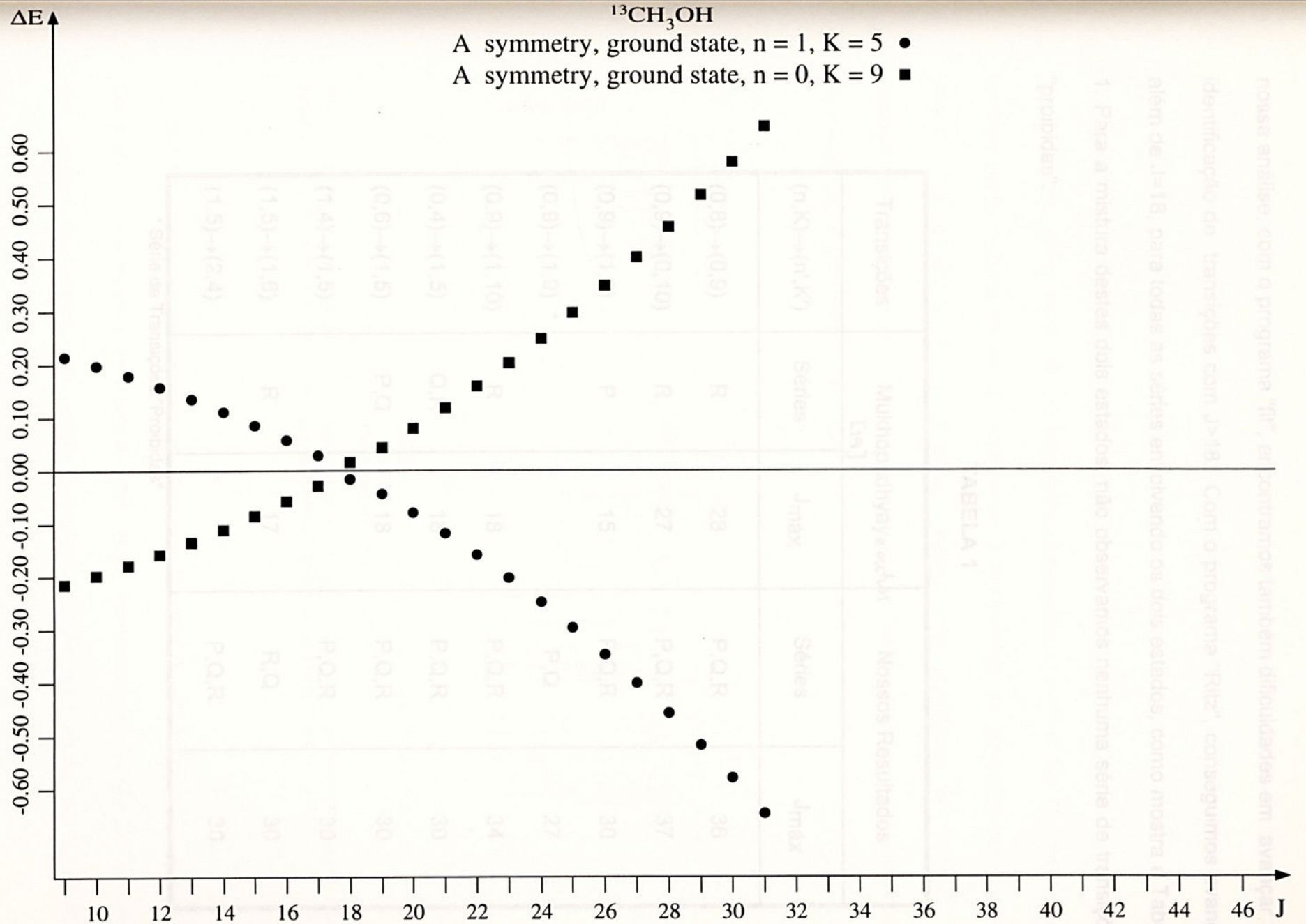


Fig.4.3: Diferença de energia entre as energias dos níveis dos grupos (0,9) e (1,5)A.

nossa análise, com o programa "fit", encontramos também dificuldades em avançar na identificação de transições com J>18. Com o programa "Ritz", conseguimos avançar além de J=18, para todas as séries envolvendo os dois estados, como mostra a Tabela 1. Para a mistura destes dois estados, não observamos nenhuma série de transições "proibidas".

TABELA 1

Transições	Mukhopadhyay e outros [19]		Nossos Resultados	
(n,K)→(n',K')	Séries	$J_{máx}$	Séries	$J_{máx}$
(0,8)→(0,9)	R	28	P,Q,R	36
(0,9)→(0,10)	R	27	P,Q,R	37
(0,9)→(1,8)	P	15	P,Q,R	30
(0,9)→(1,9) *			P,Q	27
(0,9)→(1,10)	R	18	P,Q,R	34
(0,4)→(1,5)	Q,R	18	P,Q,R	30
(0,6)→(1,5)	P,Q	18	P,Q,R	30
(1,4)→(1,5)			P,Q,R	30
(1,5)→(1,6)	R	17	R,Q	30
(1,5)→(2,4)			P,Q,R	30

* Série de Transições "Proibidas"

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A figura 4.4 é um ótimo exemplo para mostrar o efeito provocado no espectro, devido à perturbação. Esta figura mostra uma série de transições Q ocorrendo entre os níveis (0,9,J)A e (0,10,J)A. Como afirmado anteriormente, a perturbação nos níveis (0,9,J) e (1,5,J) ocorre em torno de J=18. Note que houve um aumento considerável no espaçamento entre as linhas de absorção associadas a J=17 e 18. Dentro de uma mesma série, o crescimento do espaçamento entre linhas de absorção consecutivas segue uma parábola. A perturbação quebrou esta tendência de variação do espaçamento entre linhas consecutivas, dificultando, desta maneira, o prosseguimento na identificação com a série de Taylor.

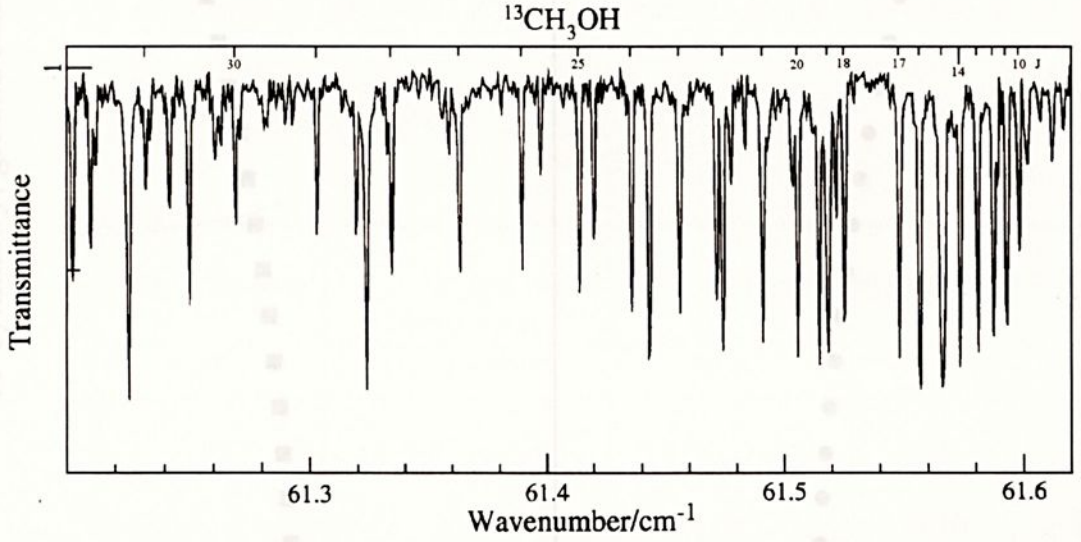


Fig. 4.4: Série Q de transições entre os grupos de níveis (0,9,J) → (0,10,J)A. O grande espaçamento entre as linhas J = 17 e 18 é devido à perturbação que ocorre entre os grupos de níveis (0, 9,J) e (1, 5,J).

2- As novas misturas observadas envolvem os níveis (1,4,J)-(1,6,J)A e (1,8,J)-(1,9,J)A. Os gráficos da diferença de energia entre níveis misturados em função de J mostram que, nestes dois casos, não ocorre o cruzamento. Apresentamos, na figura 4.5, o

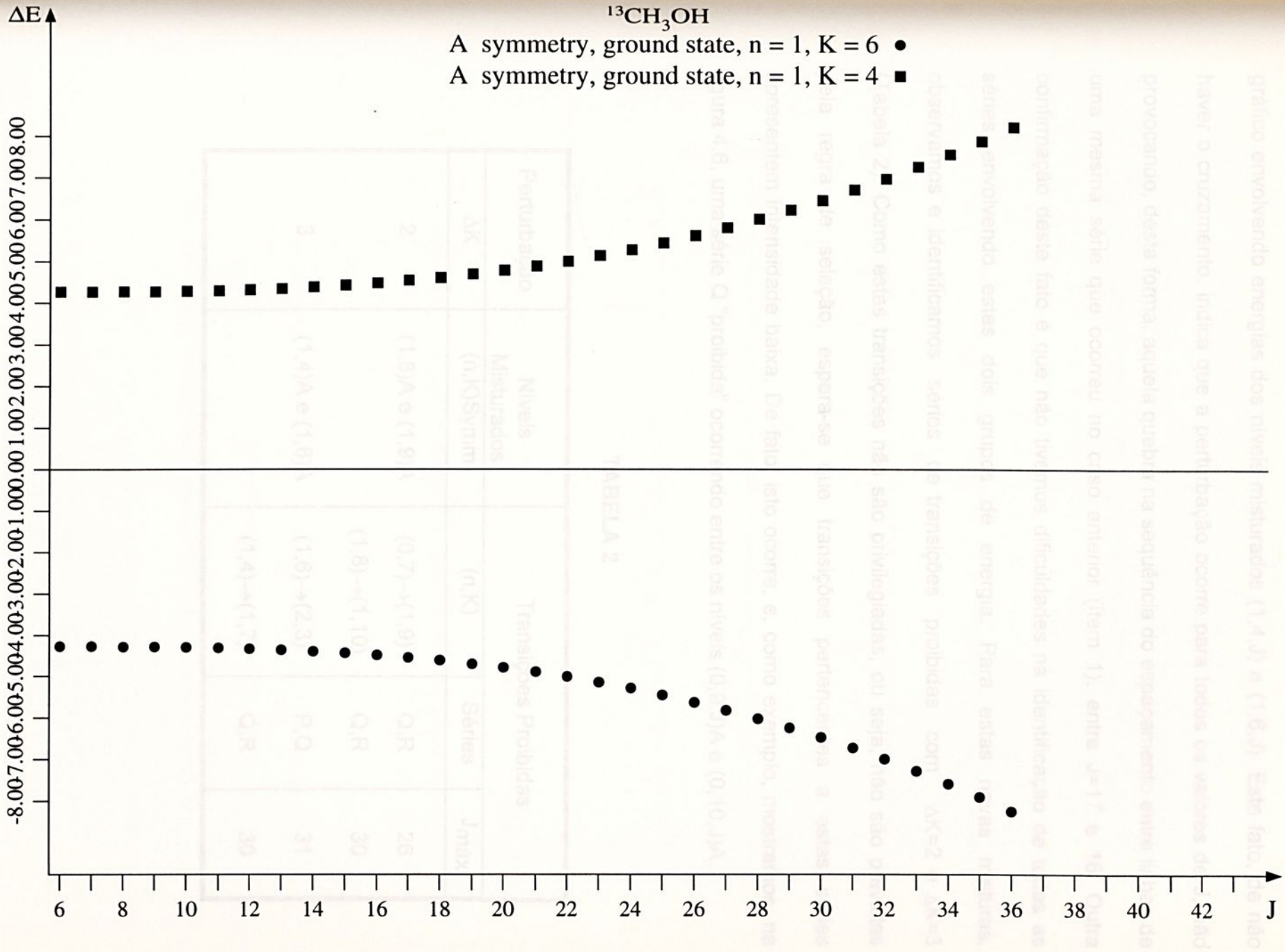


Fig.4.5: Diferença de energia entre as energias dos níveis dos grupos (1,4) e (1,6)A.

gráfico envolvendo energias dos níveis misturados (1,4,J) e (1,6,J). Este fato, de não haver o cruzamento, indica que a perturbação ocorre para todos os valores de J, não provocando, desta forma, aquela quebra na sequência do espaçamento entre linhas de uma mesma série que ocorreu no caso anterior (ítem 1), entre J=17 e 18. Outra confirmação deste fato é que não tivemos dificuldades na identificação de todas as séries envolvendo estes dois grupos de energia. Para estas novas misturas, observamos e identificamos séries de transições proibidas com $\Delta K=2$ e $\Delta K=3$ (Tabela 2). Como estas transições não são privilegiadas, ou seja, não são previstas pela regra de seleção, espera-se que transições pertencentes a estas séries apresentem intensidade baixa. De fato, isto ocorre, e, como exemplo, mostramos, na figura 4.6, uma série Q "proibida" ocorrendo entre os níveis (0,9,J)A e (0,10,J)A.

TABELA 2

Perturbação	Níveis Misturados	Transições Proibidas		
ΔK	(n,K)Symm	(n,K)	Séries	$J_{máx}$
2	(1,8)A e (1,9)A	(0,7)→(1,9)	Q,R	26
		(1,8)→(1,10)	Q,R	30
3	(1,4)A e (1,6)A	(1,6)→(2,3)	P,Q	31
		(1,4)→(1,7)	Q,R	30

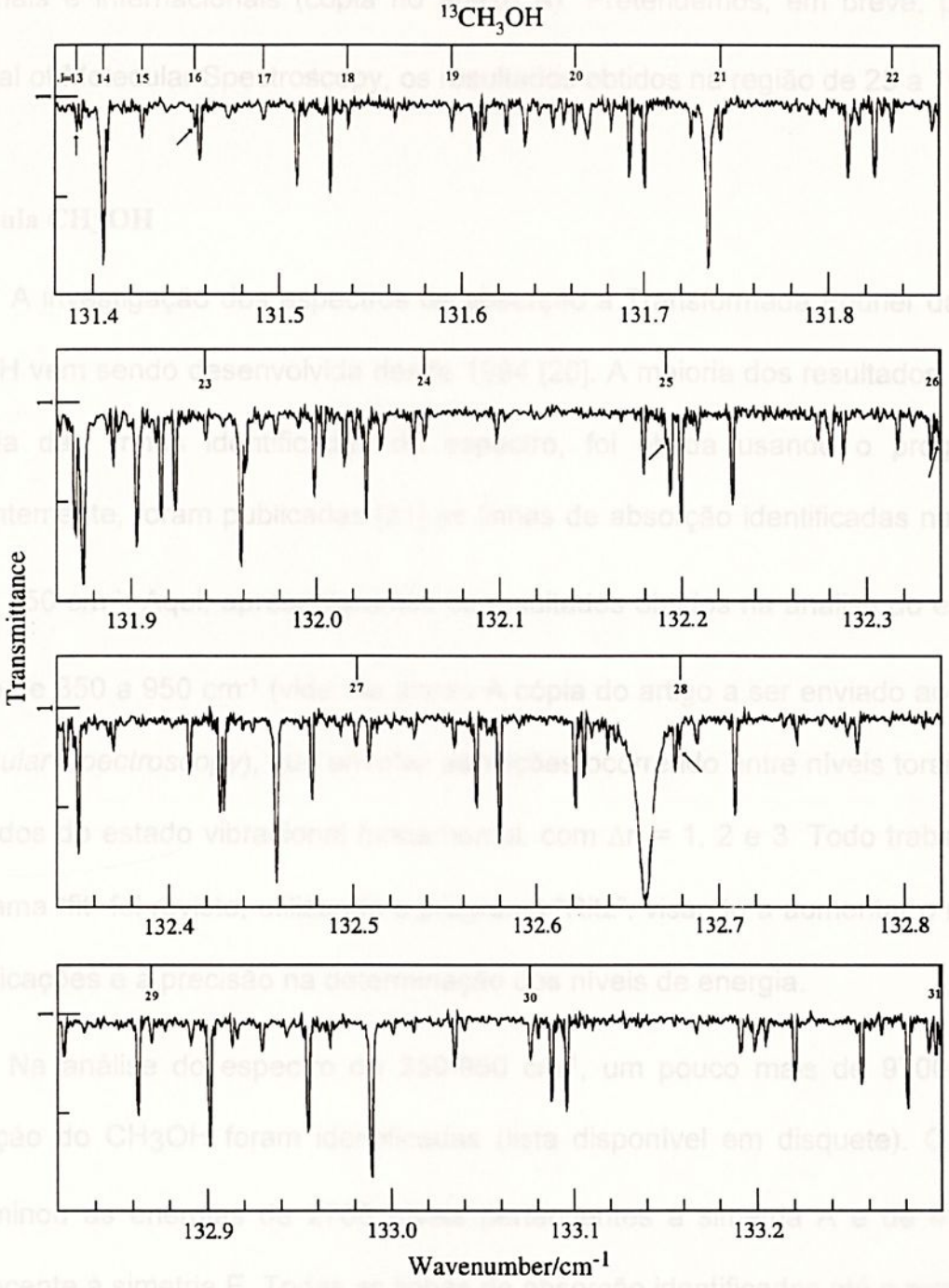


Fig. 4.6: Série Q "proibida" de transições entre grupos de níveis (1,6)→(2,3)A.

Os resultados obtidos com esta molécula foram apresentados em congressos nacionais e internacionais (cópia no anexo A). Pretendemos, em breve, publicar no Journal of Molecular Spectroscopy, os resultados obtidos na região de 25 a 100 cm^{-1}.

Molécula CH_3OH

A investigação dos espectros de absorção a Transformada Fourier da molécula CH_3OH vem sendo desenvolvida desde 1984 [20]. A maioria dos resultados, ou seja, a maioria das linhas identificadas do espectro, foi obtida usando o programa "fit". Recentemente, foram publicadas [21] as linhas de absorção identificadas na região de 200 a 350 cm^{-1}. Aqui, apresentaremos os resultados obtidos na análise do espectro na região de 350 a 950 cm^{-1} (vide, no anexo A cópia do artigo a ser enviado ao *Journal of Molecular Spectroscopy*), que envolve transições ocorrendo entre níveis torsionalmente excitados do estado vibracional fundamental, com Δn = 1, 2 e 3. Todo trabalho com o programa "fit" foi revisto, utilizando o programa "Ritz", visando a aumentar o número de identificações e a precisão na determinação dos níveis de energia.

Na análise do espectro de 350-950 cm^{-1}, um pouco mais de 9700 linhas de absorção do CH_3OH foram identificadas (lista disponível em disquete). O programa determinou as energias de 2768 níveis pertencentes à simetria A e de 4133 níveis pertencente à simetria E. Todas as linhas de absorção identificadas até o momento (um pouco mais de 35.000) estão contidas em dois arquivos correspondentes à simetria A e E, cujas frequências vão do microondas até 1.100 cm^{-1}. Os resultados também podem ser representados pelos diagramas da figura 4.7.

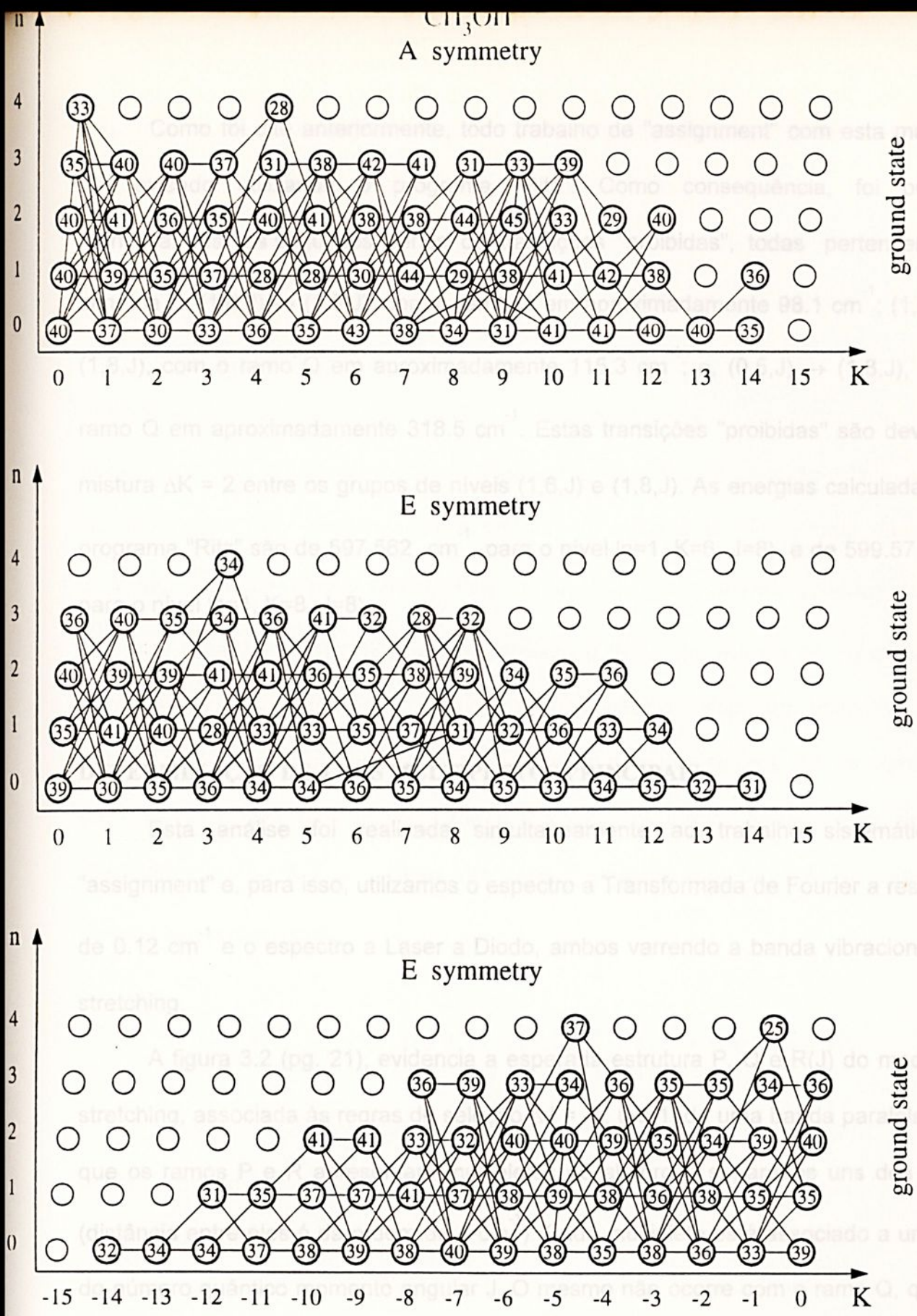


Fig. 4.7: Diagramas, semelhantes a figura 4.1, indicando os grupos de níveis identificados.

Como foi dito anteriormente, todo trabalho de "assignment" com esta molécula foi revisado utilizando o programa "Ritz". Como consequência, foi possível identificarmos as seguintes séries de transições "proibidas", todas pertencentes à simetria E: (1,6,J) → (1,9,J), com o ramo Q em aproximadamente 98.1 cm^{-1}; (1,5,J) → (1,8,J), com o ramo Q em aproximadamente 115.3 cm^{-1}; e, (0,5,J) → (1,8,J), com o ramo Q em aproximadamente 318.5 cm^{-1}. Estas transições "proibidas" são devidas à mistura $\Delta K = 2$ entre os grupos de níveis (1,6,J) e (1,8,J). As energias calculadas pelo programa "Ritz" são de 597.562 cm^{-1}, para o nível $|n=1, K=6, J=8\rangle$, e de 599.571 cm^{-1}, para o nível $|n=1, K=8, J=8\rangle$.

DETERMINAÇÃO DE J DOS MULTIPLETOS PRINCIPAIS

Esta análise foi realizada simultaneamente ao trabalho sistemático de "assignment" e, para isso, utilizamos o espectro a Transformada de Fourier a resolução de 0.12 cm^{-1} e o espectro a Laser a Diodo, ambos varrendo a banda vibracional C-O stretching.

A figura 3.2 (pg. 21), evidencia a esperada estrutura P, Q e R(J) do modo C-O stretching, associada às regras de seleção $\Delta J = -1, 0$ e 1, de uma banda paralela. Note que os ramos P e R apresentam multipletos de absorção separados uns dos outros (distância entre eles é da ordem de 1 cm^{-1}). Cada multipleto está associado a um valor do número quântico momento angular J. O mesmo não ocorre com o ramo Q, que é a

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região mais densa e rica deste espectro. A determinação de J destes multipletos é importante para o "assignment" de transições de emissão laser FIR.

Dependendo da análise que se pretende realizar com o espectro de absorção de uma molécula tipo metanol, e da resolução deste mesmo espectro, podemos considerar os movimentos de vibração e rotação da molécula, com algumas aproximações. Como o distanciamento entre multipletos é da ordem de 1 cm^{-1}, podemos utilizar, em primeira aproximação, a Hamiltoniana de vibração-rotação de uma molécula tipo "pião" simétrico, para calcular os autovalores de energia da espécie molecular $^{13}CH_3OH$ ("pião" assimétrico). Os autovalores de energia vibro-rotacional de um rotor ("pião) simétrico [22] teriam somente o 1o. e 2o. termos da equação (1.1), apresentada no capítulo 1. Devido a resolução do espectro utilizado para a determinação de J, foi nos permitido considerar somente termos até 2a. ordem em [J(J+1)], por serem mais significativos, e desprezar os termos de distorção centrífuga associados a D_{JK} e D_{KK}. Desta maneira, a equação que fornece os autovalores poderia ser aproximada a

$$E_{vr} = E_{vibr} + B_v J(J+1) - D_v[J(J+1)]^2 + (A_v - B_v)K^2$$

A frequência de uma transição ocorrendo entre um nível rotacional (K",J") de um estado vibracional inferior (v") e um nível rotacional (K',J') de um estado vibracional superior (v') é dado por

$$\nu = E'_{vr} - E''_{vr} = \Delta E_{vibr} + B_{v'}J'(J'+1) - D_{v'}[J'(J'+1)]^2 + (A_{v'} - B_{v'})K'^2 - B_{v''}J''(J''+1) + D_{v''}[J''(J''+1)]^2 - (A_{v''} - B_{v''})K''^2$$

Como estamos investigando o espectro IR de absorção, as transições ocorrendo entre estados vibracionais fundamental e excitado (C-O stretiching) obedecem às regras de seleção de uma banda paralela do rotor simétrico. Neste caso, as transições possíveis obedecem as regras ΔJ = -1, 0 e 1 (ramos P, Q e R) e $\Delta K = 0$. Como nestas transições K não muda, na equação acima aparecerá um termo quadrático em K, cujo coeficiente será $(A_{v'} - A_{v''}) - (B_{v'} - B_{v''})]$. A variação de A e de B de um estado vibracional para outro é muito pequena (ordem de centésimo de cm^{-1}) [23]. Consequentemente, o coeficiente de K^2 será ainda menor, podendo assim ser desprezado para a determinação de J dos multipletos principais (n=0), cujo distanciamento entre dois consecutivos é da ordem de 1 cm^{-1}. Desta maneira, as frequências de transições pertencentes aos ramos P e R são dados por

$$\nu_P = \nu_0 - (B_{v'} + B_{v''})J'' + (B_{v'} - B_{v''} - D_{v'} + D_{v''})J''^2 + 2(D_{v'} + D_{v''})J''^3 + (-D_{v'} + D_{v''})J''^4$$

$$\nu_R = \nu_0 + (2B_{v'} - 4D_{v'}) + (3B_{v'} - B_{v''} - 12D_{v'})J'' + (B_{v'} - B_{v''} - 13D_{v'} + D_{v''})J''^2 + (-D_{v'} + 2D_{v''})J''^3 + (-D_{v'} + D_{v''})J''^4$$

onde ν_0 é origem da banda Q. B_v e D_v são as constantes efetiva rotacional e de distorção centrífuga, respectivamente. Os valores de B_v e D_v, para os estados vibracionais fundamental (v'') e C-O Stretching (v') do $^{13}CH_3OH$, são dados por

= 1.6345 10^{-6} cm^{-1}. Usando estes parâmetros moleculares, a equações acima podem ser reescritas como

$$\nu_P = \nu_0 - 1.579J'' - 0.009J''^2 + 6.538 \cdot 10^{-6} J''^3 \qquad (4.1)$$

e

$$\nu_R = \nu_0 + 1.588 + 1.579J'' - 0.009J''^2 - 6.538 \cdot 10^{-6} J''^3 \qquad (4.2)$$

com os resultados em cm^{-1}.

Ao realizarem o "assignments", para transições laser FIR do $^{13}CH_3OH$ [25], Petersen e Henningsen estimaram estar a origem da banda Q em 1018.5 cm^{-1}. Este valor esta em bom ajuste com o valor de 1018.492 cm^{-1}, obtido diretamente do espectro do laser a diodo [26, cópia no anexo A]. Usando o valor experimental de 1018.492 cm^{-1}, para a origem da banda e as equações 4.1 e 4.2, foi possível calcular as frequências dos multipletos P(J) e R(J), cujos valores estão na terceira coluna das Tabelas 3 e 4, respectivamente. Na segunda coluna, reportamo-nos os valores experimentais correspondentes à transição de maior intensidade dentro do multipleto associado a cada J, utilizando o espectro do laser a diodo. Os ajustes podem ser considerados satisfatórios, se considerarmos as aproximações incluídas nas equações 4.1 e 4.2. O aumento da diferença entre valor calculado e experimental (quarta coluna das tabelas) com o valor de J já era esperado e isso deve-se a dois fatores: aproximações contidas em 4.1 e 4.2 e valores dos parâmetros que são bons para baixos valores de J. Este último fator ocorre porque a maioria dos parâmetros disponíveis foi avaliada a partir de dados na região microondas, onde as transições contêm baixos valores de J. Este resultado foi comparado com "assignments" de transições IR e FIR, apresentados nas referências 27 e 28, tendo mostrado um bom ajuste. Na figura 4.8, é mostrada a numeração em J dos multipletos do modo C-O stretching.

cm 1 2 3 4 5 6 7 8 unesp 12 13 14 15 16 17 18 19

TABELA 3 - Ramo P

J	υ_{exp} (cm^{-1})	υ_{calc} (cm^{-1})	$\upsilon_{calc}-\upsilon_{exp}$ (cm^{-1})
1	-	1016.885	-
2	-	1015.260	-
3	1013.623	1013.618	-0.005
4	1012.018	1011.958	-0.060
5	1010.378	1010.279	-0.099
6	1008.730	1008.584	-0.146
7	1007.080	1006.870	-0.210
8	1005.369	1005.139	-0.230
9	1003.647	1003.390	-0.257
10	1001.951	1001.624	-0.327
11	1000.163	999.840	-0.323
12	998.448	998.038	-0.410
13	996.639	996.219	-0.420
14	994.632	994.383	-0.249
15	992.824	992.530	-0.294
16	991.006	990.659	-0.437
17	989.074	988.770	-0.304
18	987.239	986.865	-0.374
19	985.329	984.942	-0.387
20	983.401	983.002	-0.399
21	981.471	981.045	-0.426
22	979.538	979.071	-0.467
23	977.600	977.080	-0.520
24	975.565	975.072	-0.493
25	973.579	973.047	-0.532

TABELA 4 - Ramo R

J	υ_{exp} (cm^{-1})	υ_{calc} (cm^{-1})	$\upsilon_{calc}-\upsilon_{exp}$ (cm^{-1})
1	-	1021.652	-
2	1022.996	1023.205	0.209
3	1024.606	1024.740	0.134
4	1026.068	1026.257	0.189
5	1027.528	1027.755	0.227
6	1028.979	1029.236	0.257
7	1030.413	1030.698	0.285
8	1031.830	1032.143	0.313
9	1033.280	1033.569	0.289
10	1034.617	1034.976	0.359
11	1035.947	1036.365	0.418
12	1037.269	1037.736	0.467
13	1038.593	1039.089	0.496
14	1039.922	1040.422	0.500
15	1041.219	1041.738	0.519
16	1042.450	1043.035	0.585
17	1043.658	1044.313	0.655
18	1044.856	1045.573	0.717
19	1045.966	1046.814	0.848
20	1047.153	1048.033	0.880
21	1048.256	1049.240	0.984
22	1049.408	1050.424	1.016
23	1050.519	1051.590	1.071
24	1051.556	1052.737	1.181
25	1052.666	1053.866	1.200

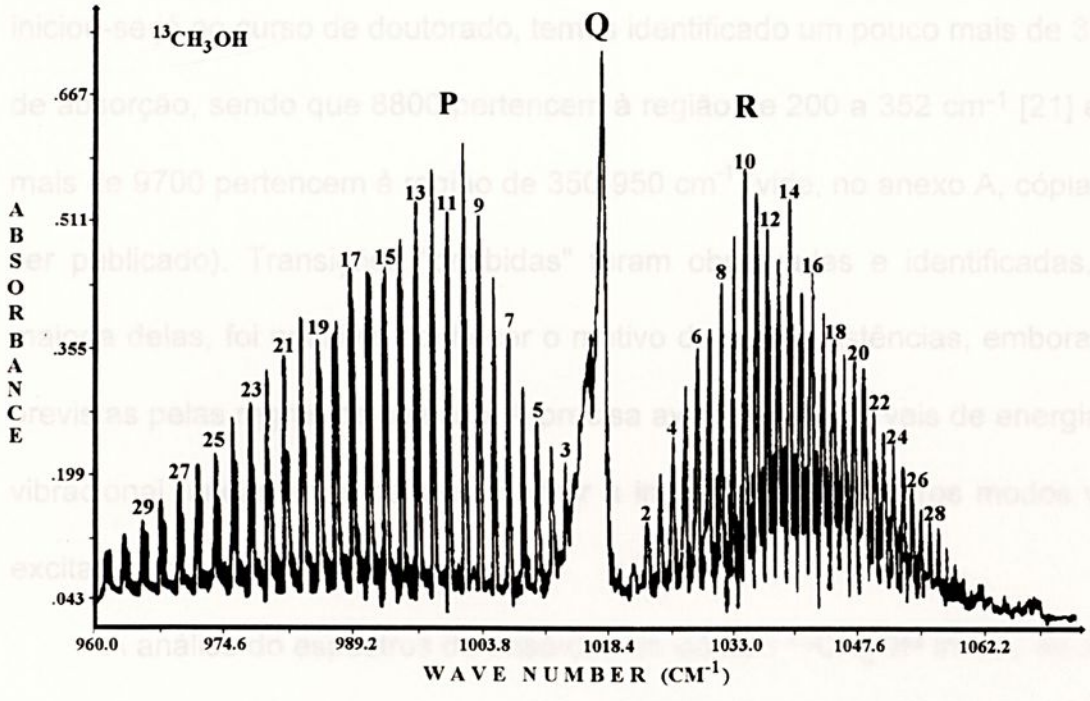


Fig. 4.8: Numeração dos multipletos principais (n=0) das bandas P e R do modo vibracional C-O Stretching.

CAPÍTULO 5

CONCLUSÕES

Os resultados inéditos obtidos no período de agosto de 1992 até o momento, embora não possibilitaram ainda um número maior de publicações, são de fundamental importância para a consolidação da linha de pesquisa implantada no Departamento de Ciências da Faculdade de Engenharia de Ilha Solteira - UNESP. O trabalho sistemático de "assignment" em espectros de absorção a Transformada de Fourier em moléculas tipo metanol, implantado em Ilha Solteira, é pioneiro no Brasil e de interesse a outros grupos de pesquisa nacional e internacional, entre os quais existe uma colaboração.

Com a molécula metanol (CH_3OH), sobre a qual iniciamos nosso trabalho iniciou-se já no curso de doutorado, temos identificado um pouco mais de 35000 linhas de absorção, sendo que 8800 pertencem à região de 200 a 352 cm^{-1} [21] e um pouco mais de 9700 pertencem à região de 350-950 cm^{-1} (vide, no anexo A, cópia do artigo a ser publicado). Transições "proibidas" foram observadas e identificadas, e, para a maioria delas, foi possível conhecer o motivo de suas existências, embora não sejam previstas pelas regras de seleção. A precisa avaliação dos níveis de energia do estado vibracional fundamental permite realizar a investigação de outros modos vibracionais excitados, ainda não investigados.

A análise do espectros de absorção do isótopo $^{13}CH_3OH$ iniciou-se aqui em Ilha Solteira e foi fundamental para a consolidação deste tipo de pesquisa no Brasil. Até o momento, identificamos cerca de 13.500 transições de absorção pertencentes à região

de 25 a 350 cm^{-1} e ao estado vibracional fundamental, v=0. Transições "proibidas" foram observadas e identificadas, todas pertencentes à simetria A, cuja origem é devido à mistura de estados perturbados por ressonância de Fermi. Para uma melhor avaliação dos níveis de energia já determinados é fundamental a obtenção de dados espectrais na região acima de 350 cm^{-1}, que já estão sendo providenciados pelo grupo alemão, com o qual mantemos uma colaboração.

Simultaneamente ao trabalho sistemático de "assignment", também foi possível fazermos uma análise com espectros a Laser a Diodo e a Transformada de Fourier, a média resolução, do modo vibracional C-O stretching. Como consequência desta análise, foi possível determinarmos a numeração dos multipletos principais (n=0) dos ramos P e R do modo vibracional C-O stretch (cópia da publicação no anexo A). Os resultados serão importantes para futuros trabalhos de "assignment" de linhas laser FIR do $^{13}CH_3OH$.

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cm 1 2 3 4 5 6 7 8 unesp 12 13 14 15 16 17 18 19

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ANEXO A
Trabalhos Publicados
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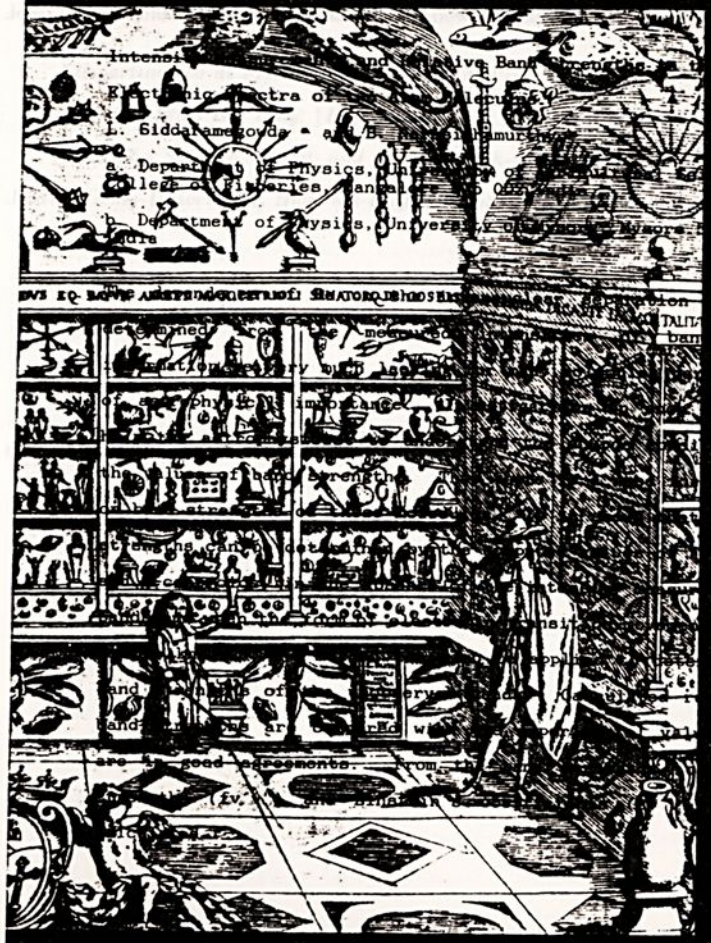
ANEXO A

Trabalhos Publicados

e/ou

a serem Publicados

THIRTEENTH COLLOQUIUM
ON HIGH RESOLUTION
MOLECULAR SPECTROSCOPY



RICCIONE 13 - 17 SEPTEMBER 1993

Edizioni CUSL

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FOURIER TRANSFORM SPECTROSCOPY OF $^{13}CH_3OH$

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We are starting an investigation of the infrared and far-infrared spectra of isotope $^{13}CH_3OH$ by high-resolution (2×10^{-3} cm^{-1}) Fourier Transform Spectroscopy (FTS). This work is performed by an assignment program package based on a Taylor series expansion of the energy levels[1]. Up to now, absorption spectrum between 21 and 350 cm^{-1}, which contain almost 150000 absorption lines, were measured. The measurement were realized on the Bruker Fourier transform spectrometer at the Physical Chemistry Institute of the University of Giessen.

Here we present our preliminary results for the region between 21 and 130 cm^{-1}, where more than 1000 lines have already been assigned. This work is the result of the collaboration between research groups of four different universities.

Work supported by FUNDUNESP, FAPESP, CNPq.

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"Ritz" Analysis of the Fourier Spectrum of CH_3OH between 350 and 950 cm^{-1}

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Abstract: Our new "Ritz" program has been used for revising and expanding the assignment of the Fourier transform infrared and far-infrared spectrum of CH_3OH. This program evaluates the energy level values involved in the assigned transitions by the Rydberg-Ritz combination principle, and can tackle such perturbations as Fermi-type resonances or Coriolis interactions. Up to now this program has evaluated the energies of 2768 levels belonging to *A*-type symmetry, and of 4133 levels belonging to *E*-type symmetry of CH_3OH. Here we present the assignment of more than 9700 lines between 350 and 950 cm^{-1}. The Taylor expansion coefficients for evaluating the energies of the levels involved in the transitions are also given. All of the lines presented in this paper correspond to transitions involving torsionally excited levels within the ground vibrational state.

Key words: Far-infrared (FIR), spectra, methanol, CH_3OH, torsion, internal rotation.

INTRODUCTION

We present our assignments of the CH_3OH Fourier transform (FT) absorption spectrum between 350 and 950 cm^{-1}, which amount to more than 9700 lines. This work concludes a first phase of the investigation of the FT spectrum of the parent species of methanol, CH_3OH. This first phase was mainly devoted to the assignment of the transitions within the ground (small-amplitude) vibrational state, and between the ground vibrational state and the first excited CO-stretching state. The investigated spectral region was in the wavenumber range between 30 and 1100 cm^{-1}. Listings of more than 21 500 assigned far infrared (FIR) absorption lines of CH_3OH below 350 cm^{-1} (*1-3*), and of almost 3400 infrared (IR) absorption lines between 960 and 1100 cm^{-1} (*4*), these corresponding mainly to CO-stretching transitions, have already been published. A book presenting all the known assignments of $^{12}CH_3\,^{16}OH$ between 30 and 1100 cm^{-1} is in preparation (*5*).

This study of the FT absorption spectrum of CH_3OH is part of a systematic investigation of the IR-FIR spectrum of methanol and its isotopic species, which started in 1984 with the compilation of a listing of about 1000 assigned lines of CH_3OH between 8 and 40 cm^{-1} (*6*). In the frame of this same project, which involves the collaboration of several research groups in different countries, we have recently published the assignment of the absorption FT spectrum of CD_3OH between 30 and 850 cm^{-1}(*7*). In this last work we introduced a new computer program which evaluates the energies of the involved levels by the Rydberg-Ritz combination principle, and can tackle without difficulties such perturbations as Fermi-type resonances or Coriolis interactions. This new program has been used in the present work also for the parent species CH_3OH.

Our assignments in the 350-950 cm^{-1} region of CH_3OH cover practically all the absorption lines whose intensity is within a factor of about 0.07 (in absorbance) of the strongest lines in this region. These lines correspond to transitions between torsionally excited levels of the vibrational ground state, with $\Delta n = 1, 2$ and 3.

While assigning the absorption lines in the 350-950 cm^{-1} spectral region we have simultaneously reviewed our assignments below 350 cm^{-1}. In particular, we have identified a mixing between the $(n = 1, K = 6)$ and $(n = 1, K = 8)$ levels of E symmetry, which originates the following $\Delta K = 3$ "forbidden" line sequences:

$(n = 1, K = 8) \leftarrow (n = 1, K = 5)$, $(n = 1, K = 9) \leftarrow (n = 1, K = 6)$ and $(n = 1, K = 8) \leftarrow (n = 0, K = 5)$.

EXPERIMENTAL DETAILS

As stated in previous works (*2, 3*), the whole absorption spectrum of CH_3OH between 30 and 1200 cm^{-1} has been measured on the Bruker Fourier transform spectrometer at the Physikalisch Chemisches Institut of the Justus Liebig University of Giessen. Measurements at higher wavenumbers are planned for the next future, in order to investigate other vibrational modes. The spectrum was calibrated using a selection of the H_2O lines in this region from Guelachvili and Rao (*8*). A linear calibration, not forced to pass through the origin, was employed. The pressure was 50 Pa (0.50 mbar, or 0.37 Torr), and the path length was 284 cm. With a nominal resolution (1/(maximum optical path difference)) of 0.0025 cm^{-1}, which would give a full width at half maximum (FWHM) of 0.0015 cm^{-1}, our line analysis routine measured FWHMs between 0.0017 cm^{-1} at $\tilde{\nu} = 350$ cm^{-1}, and 0.0039 cm^{-1} at $\tilde{\nu} = 950$ cm^{-1}, indicating that the spectrum was at least partially self-apodized by collision broadening. (The Doppler width (FWHM) at 300 K varies between 0.00077 and 0.00208 cm^{-1} in this region).

The on-line interactive line-analysis routine described in Refs. (*3*) and (*9*) has been linked also to the new line-assignment program, and used for improving the resolution of overlapping lines.

ENERGY LEVEL NOTATION

A general description of the methanol molecule and its Hamiltonian is given in various sources, including Refs. (*1*) and (*3*) and the references therein. Here we shall just review the notation for labeling the energy levels. Since transitions may only occur between states belonging to the same symmetry species, A or E, the quantum numbers involved in a particular absorption transition are conveniently represented by the notation

$$(n', K'; J')^{\sigma'} \leftarrow (n'', K''; J'')^{\sigma''} \sigma \qquad (1)$$

where the primed quantities refer to the upper state of the transition, and the double primed quantities to the lower state. The quantum number n labels the torsional state,

J is the total angular momentum and K its projection along the internal rotation axis. The superscript v labels the vibrational state of the small-amplitude vibrations. Here, $v = GR$, denoting the ground vibrational state is the only relevant label, since excited vibrational states do not occur in the present FIR study. The label σ stands for the symmetry species, A or E, common to the upper and lower level of the transition. Since Ref. (*2*) we have switched to the convention of labeling both E-symmetries by E, as recommended by Lees in 1973 (*10*), denoting by positive K values the states formerly denoted by E_1, and by negative K values the states formerly denoted by E_2. This notation is now well established, and we stick to it in the present work.

In the assignments of A-symmetry lines affected by asymmetry doubling, a + or − superscript follows the K value of the upper and lower state in our listing. This +/− sign follows the convention by Ivash and Dennison (*11*), which we recalled in Ref. (*3*).

Thus, in the text, levels will be represented by the following ket notations

$$|A, n, K^{\pm}; J\rangle \text{ and } |E, n, \pm K; J\rangle \tag{2}$$

where A or E labels the symmetry species, and the quantum number v is omitted because only levels of the ground vibrational state ($v = 0$) have been investigated in the present work. Transitions will be represented by the notations

$$(n', K'^{\pm}; J') \leftarrow (n'', K''^{\pm}; J'')A \text{ and } (n', \pm K'; J') \leftarrow (n'', \pm K''; J'')E. \tag{3}$$

Level sequences, i.e., sets of levels sharing all the quantum numbers but J, will be represented by the notation

$$(\sigma, n, K)'' \tag{4}$$

where the σ and v labels will be omitted when obvious from the context.

THE ASSIGNMENT PROCEDURE

In our preceding works on CH_3OH (*2-3*) the assignment procedure was predominantly based on Taylor series expansions. The energy levels were divided into sequences, the levels of a given sequence sharing all quantum numbers but J. In an approach independently proposed in 1981 both by J.O. Henningsen (*12*) and by H.M. Pickett *et al.* (*13*), each sequence of energy levels is developed as a Taylor series in $J(J + 1)$:

$$E(q, J) = \sum_{m=0} a_m(q)[J(J+1)]^m \pm \frac{1}{2}\frac{(J+K)!}{(J-K)!}[S(q) + J(J+1)T(q)], \tag{5}$$

where q stands for the set of common quantum numbers of a given sequence, σ, v, n, and K. The term including S and T describes the asymmetry doubling and contributes only for levels belonging to A symmetry with small, but nonzero, K values. Our old assignment method essentially proceeded by evaluating the Taylor (as well as S and T, when needed) coefficients from a linear least χ^2 fit of the assigned lines. Then these coefficients were used both for evaluating the energies of the levels involved in the assigned transitions, and for extrapolating to the energies of further levels with successive J quantum numbers. This allowed the prediction of the wavenumbers corresponding to new transitions between the evaluated or extrapolated levels. As reminded in our previous works, and in particular in Ref. (*7*), this program performs quite well in the absence of such perturbations as like Fermi-type resonances and Coriolis interactions. Most "perturbed" level sequences are not well-behaved in the $J(J + 1)$ expansion, and this often leads to the impossibility to follow the line sequences up to high J values. Further, it is worth noting that Eq. (5) cannot fit properly the large asymmetry doublings found for the $n = 0, K = 1$ levels of the ground vibrational state of A - type symmetry of all methyl-symmetric isotopic species, including CH_3OH. At high J values (approximately $J > 20$), the inclusion of terms of order higher than T would be required. Thus, some care is recommended when using the Taylor development coefficients which we present in Tables I, II and III.

These difficulties led us to develop a new assignment program, fully described in Ref. (*7*), where the energies of the levels connected by the assigned transitions are not approximated by Taylor expansions, but evaluated directly by the Rydberg-Ritz combination principle. That is, we evaluate the energy level values E_i which minimize the expression

$$\chi^2 = \sum_{i,j} \frac{(E_i - E_j - \nu_{ij})^2}{\epsilon_{ij}^2} \tag{6}$$

where E_i and E_j are the energies of the ith and jth level of the molecule, respectively, ν_{ij} is the experimental wavenumber of the corresponding transition, and ϵ_{ij} its experimental accuracy. Of course, this program still requires extrapolations for predicting the energies

of levels not involved in the assigned lines. But we have found that even when a level sequence strongly deviates from any possible reasonable Taylor expansion, it can still be followed by predicting the energy of the Jth level by parabolic extrapolation from the energies of the levels $J-1$, $J-2$ and $J-3$. Of course, the whole sequence cannot be fit by a parabola, but, once the J level has been identified, its "experimental" value can be used for extrapolating the energy of $J+1$, so that extended extrapolations are never needed (*7*).

The new "Ritz" program allowed us to follow the $|A, v=0, n=0, K=1; J\rangle$ line sequence, affected by the largest asymmetry doubling, up to $J=36$. The deviation of this level sequence from the best fitting Taylor expansion to the 5th power in $J(J+1)$ is shown in Fig. 1.

At the moment, the two data files corresponding to $A-$ and $E-$ type symmetry contain a total of more than 35 000 assigned lines, ranging from the microwave region up to 1100 cm^{-1}. Of course, this number includes also the available assignments performed by other research groups and quoted in Refs. (*1*), (*2*), (*4*), and (*6*). The diagrams of Figs. 2, 3 and 4 illustrate the level sequences of the (small-amplitude) vibrational ground state, involved in the transitions assigned in the present work. The corresponding coefficients for the Taylor expansion of the energy levels, and the uncertainties which affect these coefficients, are reported in Tables I and II.

The "Ritz" program has evaluated the energies of 2768 levels belonging to A-type symmetry, and of 4133 levels belonging to E-type symmetry. A comparison between the energies of first 200 lowest-lying levels of CH_3OH and of the first 200 levels of CD_3OH, and the histograms of the energy-level distributions of these teo molecules, have been presented in Ref. (*7*).

STATE MIXINGS AND FORBIDDEN LINES

In a previous work (*3*) we had found evidence for a perturbation of the $(n=4, K=0; J)A$ levels. In fact, we observed the whole P and R series of the $(n=4, K=0; J') \leftarrow (n=0, K=0; J'')A$ transitions, which would be forbidden if the upper states were pure $(n=4, K=0; J')A$. We did not find the corresponding Q-branch, which is not surprising, since it would correspond to $\Delta J=0$, $K'=0 \leftarrow K''=0$ transitions. On the other hand, we have also observed the $(n=4, K=0; J') \leftarrow (n=3, K=1; J'')A$, $(n=4, K=0; J') \leftarrow (n=2, K=1; J'')A$ and $(n=4, K=0; J') \leftarrow (n=1, K=1; J'')A$ transitions shown in Fig. 2, all of them being regular $b-$ type transitions.

We could not yet determine which levels are perturbing these $(n=4, K=0; J)A$ states.

As reminded in the Introduction, in the present work we have also revised our work at lower wavenumbers, and we have assigned three "forbidden" transitions, all belonging to E symmetry: $(n=1, K=9) \leftarrow (n=1, K=6)$ with the Q branch at approximately 98.1 cm^{-1}, $(n=1, K=8) \leftarrow (n=1, K=5)$ with the Q branch at approximately 115.3 cm^{-1}, and $(n=1, K=8) \leftarrow (n=0, K=5)$ with the Q branch at approximately 318.5 cm^{-1}. These "forbidden" transitions are due to the $\Delta K=2$ mixing between the $(n=1, K=6)$ and $(n=1, K=8)$. The energies calculated by the Ritz program are 597.562 cm^{-1} for $|n=1, K=6; J=8\rangle$ and 599.571 cm^{-1} for $|n=1, K=8; J=8\rangle$.

Other perturbations of level sequences, which do not lead to known forbidden lines, are discussed in the next section.

COMMENTS ON THE TABLES

As in our preceding works on CH_3OH, we present the Taylor development coefficients for the energy levels Tables I, II, and III. Table I reports the a_m coefficients, and Table II the S and T coefficients for the ground vibrational state of A symmetry. Table III reports the a_m coefficients for E symmetry. The investigated level sequences are the same as those of the corresponding tables of Refs. (*2*) and (*3*). As usual, the a_0 coefficients for the $(n=0, K=0)$ levels of each symmetry have been set equal to their theoretical values, as evaluated by diagonalizing the Kwan-Dennison Hamiltonian (*14*), in order to allow comparison between the energies of levels belonging to different symmetry species. This is why no error is reported for these coefficients.

As we pointed out earlier, some care is recommended when using these tables, due to the presence of several perturbed sequences. Thus, for each set of Taylor coefficients we report not only the quantum numbers labeling the sequence, and the values of the coefficients and their errors, but also the minimum and maximum J values of the levels fitted by the coefficients, J_{min} and J_{max}, respectively. We also report the root mean

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square deviation of the "Taylor" energies from the energies calculated by the "Ritz" program, the maximum deviation observed and the J value $J_{m.\varepsilon}$ at which the maximum deviation was observed.

As mentioned in Refs. (2), (3) and (7), the errors reported for each Taylor coefficient are the square roots of the diagonal elements of the error matrix, since the χ^2 of our fits is always very close to 1×(the number of degrees of freedom). The error matrix is the inverse of the curvature matrix, i.e. the symmetric matrix of the system of linear equations which is solved by the fit program in order to evaluate the coefficients. Again, we remind that the whole error matrix should be considered for a deeper insight into the uncertainties which affect the Taylor coefficients. However, the errors given in our tables, plus the value of the maximum deviation of the Taylor expansion from the "Ritz" value of the energy for each level sequence, are sufficient to estimate the errors which affect the energies calculated from the coefficients of Tabs. I, II and III.

It was not possible to fit some strongly perturbed level sequences by a single set of Taylor coefficients. In these cases we split the sequence into a subsequence with lower J values and a subsequence with higher J values, and evaluated separate coefficients for the subsequences. Due to particularly strong deviations of the Taylor developments from the "Ritz" values, we had to split into three subsequences each of the six sequences $(n = 1, K = 6)$ and $(n = 1, K = 9)$ of A symmetry, and $(n = 0, K = -2)$, $(n = 0, K = 0)$, $(n = 0, K = 2)$ and $(n = 1, K = 6)$ of E symmetry. The following level sequences were split into two subsequences each for the evaluation of Taylor coefficients: $(n = 0, K = 1)$, $(n = 0, K = 9)$, $(n = 1, K = 4)$, $(n = 1, K = 5)$, $(n = 1, K = 8)$ and $(n = 4, K = 0)$ of A symmetry, and $(n = 1, K = 3)$, $(n = 1, K = 5)$, $(n = 2, K = 1)$, $(n = 2, K = 2)$, $(n = 2, K = 9)$ and $(n = 2, K = 10)$ of E symmetry. These sequences are recognizable on the tables also because their Taylor coefficients deviate strongly from the corresponding values of the neighboring sequences, and are affected by much larger errors. In a few cases the reported errors are larger than the corresponding coefficients. This occurs in situations where the error is so large that the section of the χ^2 surface can no longer be approximated by a parabola around the minimum in a range of the order of the error. Thus, the reported error becomes meaningless. However, neglecting the corresponding Taylor coefficient leads to a substantial increase in the deviation of

the Taylor from the Ritz levels. Thus we chose to report both parameter and error on the tables, reminding that in these cases the only information on the reliabilty of the coefficients is contained in the last five columns of the table.

A glance at the a_0 coefficients of the various sequences leads, in a few cases, to the identification of the perturbation affecting an ill-behaved level sequence. This is the case for the perturbations between $(A, n = 1, K = 8)$ and $(A, n = 1, K = 9)$, and between $(E, n = 1, K = 6)$ and $(E, n = 1, K = 8)$, already mentioned. Unfortunately, the origin of all other perturbations remains unexplaind for the moment.

The anomaly of the Taylor coefficients for $(n = 0, K = 1)$ of A symmetry arise from the impossibility to fit the large asymmetry splittings of this sequence at high J values by the S and T coefficients of Eq. (5) alone (see Fig. 1).

It is worth noting that, differently from our previous works on CH_3OH, in the present work we have first evaluated the values of the level energies by minimizing Eq. (6) over the whole symmetry species, then we have evaluated the Taylor coefficients which best fit the "Ritz" energy values, independently for each level sequence.

If the Taylor coefficients of the present work are compared to the Tables of Refs. (2) and (3), it is seen that the a_1 coefficients are constant to within 3 parts in 10^5, whereas the relative stability is of the order of 1 to 5% for the a_2 coefficients, of the order of 10% for the a_3 coefficients, and somewhat worse for a_4 and a_5 (relative stabilities for $a_1 : a_2 : a_3 \approx 10^{-4} : 10^{-2} : 10$). The slightly larger deviation of the present coefficients from the coefficients of Ref. (3), with respect to the deviation of Ref. (3) from Ref. (2) is due to the different procedure for evaluating the coefficients mentioned above. Therefore, the present coefficients are more reliable. However, we remind that, as discussed in Ref. (2), these adjustments of the constants do not absolutely imply a revision of the assignments of the previous works.

ACKNOWLEDGEMENTS

The authors are indebted to Dipl. Ing. Klaus Lattner (???) for skilful operation of the Bruker spectrometer in Giessen. The laboratory work in Giessen was supported in part by the Deutsche Forschungsgemeinschaft and Fonds der Chemischen Industrie. One of the authors (G.M.) feels indebted to the Free Software Foundation, Inc., for

the online availability of the GNU *C* compiler and of the GO32 DOS extender, which supported all the software used in the present work.

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Table 1
Taylor expansion coefficients for A symmetry

r	n	Ã	a_0		a_1		$a_2 \times 10^{10}$		$a_3 \times 10^{13}$		$a_4 \times 10^{15}$		J_{min}	J_{max}	rms ε	max. ε	$J_{m.\varepsilon}$
GR	0	0	127.97537	(6)	0.806783	(1)	-49931	(54)	2294	(59)	122	(5)	0	31	1.2×10^{-04}	2.6×10^{-04}	24
GR	0	1	138.08066	(27)	0.806824	(4)	-32144	(92)					1	20	8.0×10^{-04}	1.9×10^{-03}	20
GR	0	1	138.06931	(178695)	0.806900	(12887)	-34192	(361381)	3102	(493156)	-282	(32799)	20	33	9.6×10^{-03}	-1.7×10^{-02}	33
GR	0	2	154.18352	(7)	0.806855	(1)	-16719	(63)	-1488	(77)			2	23	1.7×10^{-04}	3.9×10^{-04}	23
GR	0	3	162.58753	(7)	0.806733	(1)	-12323	(20)	714	(15)			3	29	1.3×10^{-04}	-3.6×10^{-04}	29
GR	0	4	183.81879	(11)	0.806614	(1)	-7933	(14)	-381	(8)			4	35	2.1×10^{-04}	-6.0×10^{-04}	18
GR	0	5	223.82123	(3)	0.806623	(0)	-14881	(7)	-82	(5)			5	32	5.0×10^{-05}	-1.6×10^{-04}	31
GR	0	6	262.61706	(8)	0.806557	(0)	-18617	(5)	-15	(2)			6	43	1.5×10^{-04}	-3.7×10^{-04}	42
GR	0	7	298.05344	(5)	0.806336	(0)	-17729	(1)					7	38	1.0×10^{-04}	3.1×10^{-04}	35
GR	0	8	351.07325	(5)	0.806183	(0)	-15792	(2)					8	33	8.4×10^{-05}	2.6×10^{-04}	32
GR	0	9	418.69009	(79)	0.806179	(12)	-19649	(591)	5934	(1164)	-533	(79)	9	25	1.5×10^{-04}	-3.8×10^{-04}	14
GR	0	9	426.69647	(231414)	0.763131	(11158)	830824	(199851)	-720956	(157635)	21897	(4621)	25	32	1.4×10^{-03}	2.1×10^{-03}	30
GR	0	10	479.92925	(6)	0.805945	(0)	-19245	(5)	-20	(2)			10	39	6.2×10^{-05}	-1.4×10^{-04}	29
GR	0	11	544.63671	(14)	0.805669	(1)	-19394	(9)	-55	(3)			11	40	1.2×10^{-04}	4.9×10^{-04}	38
GR	0	12	628.92433	(22)	0.805465	(1)	-17169	(14)	-20	(6)			12	39	1.6×10^{-04}	3.7×10^{-04}	32
GR	0	13	721.54109	(25)	0.805352	(1)	-18102	(15)	-40	(6)			13	39	1.6×10^{-04}	-4.5×10^{-04}	35
GR	0	14	806.45034	(874)	0.806350	(80)	-57776	(2635)	42739	(3672)	-1796	(184)	15	27	2.2×10^{-04}	4.8×10^{-04}	16
GR	1	0	422.42625	(3)	0.804846	(0)	-12914	(4)	-163	(2)			0	39	9.5×10^{-05}	-2.4×10^{-04}	31
GR	1	1	354.04159	(3)	0.804680	(0)	-23830	(9)	280	(7)			1	31	9.1×10^{-05}	-3.3×10^{-04}	30
GR	1	2	335.56538	(3)	0.804643	(0)	-20754	(4)	115	(2)			2	35	6.9×10^{-05}	2.0×10^{-04}	31
GR	1	3	403.28855	(5)	0.804603	(0)	-10953	(11)	-306	(7)			3	31	8.4×10^{-05}	1.8×10^{-04}	22
GR	1	4	462.34223	(9)	0.804375	(2)	20094	(128)	-9202	(216)			4	19	7.7×10^{-05}	1.1×10^{-04}	12
GR	1	4	462.31115	(548)	0.804513	(27)	18920	(427)	-10112	(220)			20	29	1.2×10^{-04}	2.4×10^{-04}	28
GR	1	5	420.27845	(14)	0.804438	(2)	-19936	(82)	1151	(88)			5	24	1.4×10^{-04}	-2.9×10^{-04}	24
GR	1	5	418.84524	(25826)	0.811501	(1155)	-136024	(17080)	64839	(8343)			23	28	5.4×10^{-04}	7.5×10^{-04}	27
GR	1	6	453.40255	(17)	0.804585	(3)	-55063	(136)	10493	(181)			6	21	1.0×10^{-04}	2.2×10^{-04}	9
GR	1	6	453.40889	(263)	0.804569	(15)	-55455	(285)	11467	(176)			19	26	2.9×10^{-05}	5.0×10^{-05}	23
GR	1	6	453.51717	(999)	0.804089	(39)	-48383	(492)	7998	(206)			24	31	6.2×10^{-05}	-9.6×10^{-05}	30
GR	1	7	565.75797	(12)	0.804249	(1)	-15307	(18)	-64	(14)	-2	(0)	7	44	1.5×10^{-04}	4.7×10^{-04}	40
GR	1	8	602.50491	(78)	0.802681	(13)	-2288	(634)	-13643	(935)			8	19	1.8×10^{-04}	-3.5×10^{-04}	8

Table 1 (*continued*)
Taylor expansion coefficients for A symmetry

r	n	Ã	a_0		a_1		$a_2 \times 10^{10}$		$a_3 \times 10^{13}$	$a_4 \times 10^{15}$	J_{min}	J_{max}	rms ε	max. ε	$J_{m.\varepsilon}$
GR	1	8	602.39712	(1462)	0.803408	(72)	-19861	(1139)	1696	(588)	20	29	3.2×10^{-04}	6.9×10^{-04}	27
GR	1	9	603.14072	(97)	0.805276	(12)	-34365	(460)	8240	(515)	9	22	2.7×10^{-04}	4.9×10^{-04}	9
GR	1	9	603.20178	(243)	0.804875	(11)	-25305	(150)	1231	(69)	21	31	6.4×10^{-05}	-1.1×10^{-04}	23
GR	1	9	602.42341	(17792)	0.807160	(493)	-47592	(4522)	8456	(1376)	30	35	1.8×10^{-04}	2.7×10^{-04}	31
GR	1	10	657.93357	(16)	0.803736	(1)	-12658	(20)	-82	(11)	10	33	1.1×10^{-04}	-2.5×10^{-04}	32
GR	1	11	834.62100	(10)	0.803715	(1)	-17098	(7)	-24	(3)	11	40	9.4×10^{-05}	3.2×10^{-04}	36
GR	1	12	854.46335	(16)	0.803156	(1)	-17689	(16)	145	(8)	12	34	8.4×10^{-05}	1.9×10^{-04}	32
GR	1	14	1037.20968	(20)	0.802820	(1)	-13328	(4)			14	36	1.8×10^{-04}	5.1×10^{-04}	30
GR	2	0	481.19333	(3)	0.803760	(0)	-14983	(4)	-40	(2)	0	38	7.5×10^{-05}	-2.0×10^{-04}	30
GR	2	1	602.53541	(2)	0.803666	(0)	-15666	(2)	-21	(1)	1	40	7.0×10^{-05}	2.4×10^{-04}	39
GR	2	2	737.29664	(5)	0.803160	(0)	-15622	(7)	-15	(4)	2	35	1.1×10^{-04}	4.2×10^{-04}	34
GR	2	3	585.37364	(4)	0.803687	(0)	-15161	(8)	28	(5)	3	34	8.7×10^{-05}	2.1×10^{-04}	33
GR	2	4	555.07458	(4)	0.803742	(0)	-15571	(1)			4	36	9.0×10^{-05}	2.4×10^{-04}	19
GR	2	5	732.95837	(4)	0.803329	(0)	-15870	(1)			5	39	1.0×10^{-04}	3.5×10^{-04}	39
GR	2	6	793.82802	(4)	0.803007	(0)	-14382	(6)	-57	(3)	6	35	6.4×10^{-05}	1.7×10^{-04}	33
GR	2	7	683.07210	(5)	0.803324	(0)	-12634	(7)	-143	(4)	7	35	6.7×10^{-05}	-2.0×10^{-04}	30
GR	2	8	756.22974	(8)	0.803343	(0)	-16532	(1)			8	44	1.8×10^{-04}	-6.2×10^{-04}	44
GR	2	9	975.60259	(11)	0.802703	(1)	-16054	(8)	-26	(3)	9	40	1.3×10^{-04}	-3.2×10^{-04}	36
GR	2	10	963.02435	(8)	0.802529	(0)	-13848	(4)			10	30	9.0×10^{-05}	2.3×10^{-04}	30
GR	2	12	1072.39866	(8)	0.802556	(0)	-15610	(2)			12	35	8.5×10^{-05}	-1.9×10^{-04}	13
GR	3	0	1174.63773	(4)	0.801369	(0)	-16111	(2)			0	32	1.2×10^{-04}	-2.6×10^{-04}	2
GR	3	1	935.20484	(5)	0.802359	(0)	-15961	(8)	-12	(4)	1	36	1.6×10^{-04}	7.7×10^{-04}	34
GR	3	2	793.65971	(6)	0.802972	(0)	-15933	(6)	-24	(2)	2	39	1.5×10^{-04}	3.8×10^{-04}	39
GR	3	3	1027.89291	(5)	0.802080	(0)	-16123	(7)	-21	(3)	3	36	1.0×10^{-04}	2.4×10^{-04}	35
GR	3	4	1157.16058	(3)	0.801468	(0)	-16024	(4)			4	25	5.4×10^{-05}	-1.4×10^{-04}	5
GR	3	5	953.98183	(6)	0.802343	(0)	-15734	(2)			5	34	1.3×10^{-04}	-3.1×10^{-04}	30
GR	3	6	961.34106	(5)	0.802517	(0)	-16150	(1)			6	40	1.1×10^{-04}	2.1×10^{-04}	39
GR	3	7	1231.47498	(8)	0.801509	(0)	-16255	(2)			7	38	1.6×10^{-04}	-4.7×10^{-04}	37
GR	3	8	1250.50259	(7)	0.801268	(0)	-15720	(5)			8	28	8.8×10^{-05}	-2.1×10^{-04}	25
GR	3	9	1084.61567	(5)	0.802015	(0)	-15138	(3)			9	30	6.3×10^{-05}	-1.4×10^{-04}	27

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Table 1 (*continued*)
Taylor expansion coefficients for A symmetry

r	n	K	a_0	a_1	$a_2 \times 10^{10}$	$a_3 \times 10^{15}$	$a_4 \times 10^{15}$	J_{min}	J_{max}	rms ε	max ε	J_{max}
GR	3	1	1240.22752 (11)	0.801766 (0)	-16262 (2)			10	38	1.8×10^{-04}	6.1×10^{-04}	37
GR	4	0	1175.56299 (10)	0.801403 (2)	-21545 (71)	2905 (76)		0	25	2.1×10^{-04}	3.3×10^{-04}	25
GR	4	0	1175.60154 (525)	0.801159 (22)	-17530 (301)	396 (132)		21	32	1.8×10^{-04}	-4.3×10^{-04}	30
GR	4	4	1303.05371 (11)	0.801070 (1)	-15553 (27)			4	21	1.7×10^{-04}	-4.1×10^{-04}	19

Table 2
Asymmetry splitting coefficients

r	n	K	S	T	r	n	K	S	T
GR	0	1	-1.3971×10^{-02} (4.7×10^{-06})	5.62×10^{-07} (1.4×10^{-08})	GR	1	3	-1.3911×10^{-11} (6.1×10^{-13})	2.03×10^{-15} (6.9×10^{-16})
GR	0	1	-1.4371×10^{-02} (2.5×10^{-05})	1.35×10^{-06} (2.8×10^{-08})	GR	2	1	-3.0367×10^{-03} (7.7×10^{-08})	6.73×10^{-08} (6.4×10^{-11})
GR	0	2	3.2119×10^{-06} (2.6×10^{-09})	-3.52×10^{-10} (5.5×10^{-12})	GR	2	2	-5.5847×10^{-10} (2.8×10^{-10})	-1.56×10^{-12} (2.6×10^{-13})
GR	0	3	-8.7829×10^{-10} (1.4×10^{-12})	7.65×10^{-14} (1.7×10^{-15})	GR	3	1	8.5657×10^{-06} (6.2×10^{-08})	
GR	0	4	9.1460×10^{-14} (7.4×10^{-16})	-1.38×10^{-17} (6.4×10^{-19})	GR	3	2	-4.9828×10^{-08} (4.1×10^{-11})	
GR	1	1	-1.6090×10^{-03} (1.9×10^{-07})	6.26×10^{-08} (2.6×10^{-10})	GR	3	3	3.4775×10^{-13} (3.7×10^{-14})	
GR	1	2	-2.4986×10^{-07} (1.7×10^{-10})	8.11×10^{-12} (1.6×10^{-13})					

Table 3 (*continued*)
Taylor expansion coefficients for E symmetry

r	n	K	a_0	a_1	$a_2 \times 10^{10}$	$a_3 \times 10^{13}$	$a_4 \times 10^{15}$	J_{min}	J_{max}	rms ε	max. ε	$J_{m\,\varepsilon}$
GR	1	6	540.24107 (4034)	0.802398 (128)	-16419 (1323)	-1532 (449)		26	35	4.6×10^{-04}	-6.0×10^{-04}	33
GR	1	7	531.92144 (12)	0.804056 (1)	-20486 (14)	120 (6)		7	37	1.7×10^{-04}	4.7×10^{-04}	37
GR	1	8	541.69367 (47)	0.803717 (6)	22490 (214)	-27770 (302)	780 (14)	8	31	2.5×10^{-04}	5.9×10^{-04}	8
GR	1	9	637.75878 (7)	0.803934 (1)	-13722 (11)	-61 (7)		9	32	5.7×10^{-05}	1.4×10^{-04}	28
GR	1	10	762.87609 (11)	0.804010 (1)	-21448 (10)	174 (5)		10	36	9.0×10^{-05}	-3.2×10^{-04}	35
GR	1	11	760.14701 (12)	0.803376 (0)	-17888 (4)			11	33	1.4×10^{-04}	-3.2×10^{-04}	20
GR	1	12	820.24382 (51)	0.803571 (3)	-25530 (62)	2514 (34)		12	32	2.2×10^{-04}	-4.6×10^{-04}	31
GR	2	-10	998.63425 (19)	0.802674 (1)	-15988 (12)	-29 (4)		10	41	2.0×10^{-04}	-6.7×10^{-04}	40
GR	2	-9	784.65756 (10)	0.803223 (1)	-15216 (7)	-23 (3)		9	41	1.3×10^{-04}	2.8×10^{-04}	39
GR	2	-8	766.29932 (13)	0.803099 (1)	-13049 (20)	-99 (12)		8	33	1.3×10^{-04}	-3.1×10^{-04}	29
GR	2	-7	881.64853 (7)	0.802718 (0)	-14933 (3)			7	32	1.2×10^{-04}	3.8×10^{-04}	31
GR	2	-6	731.16546 (5)	0.803369 (0)	-15635 (5)	-51 (2)		6	40	9.0×10^{-05}	-3.0×10^{-04}	38
GR	2	-5	568.16981 (5)	0.803550 (0)	-14495 (5)	-62 (2)		5	40	1.0×10^{-04}	4.0×10^{-04}	39
GR	2	-4	645.45631 (5)	0.803504 (0)	-15332 (1)			4	37	1.2×10^{-04}	5.0×10^{-04}	37
GR	2	-3	763.92873 (2)	0.803143 (0)	-15909 (4)	-29 (2)		3	35	5.0×10^{-05}	1.6×10^{-04}	32
GR	2	-2	576.23331 (5)	0.803757 (0)	-15999 (2)			2	32	1.2×10^{-04}	-3.8×10^{-04}	32
GR	2	-1	497.75415 (5)	0.803826 (0)	-14911 (7)	-66 (3)		1	39	1.4×10^{-04}	-6.8×10^{-04}	37
GR	2	0	638.29520 (3)	0.803530 (0)	-15314 (4)	-39 (2)		0	40	9.6×10^{-05}	-4.0×10^{-04}	37
GR	2	1	683.28150 (2)	0.803359 (0)	-15528 (8)	-22 (6)		1	30	4.9×10^{-05}	1.4×10^{-04}	28
GR	2	1	683.41297 (1569)	0.802941 (43)	-11149 (378)	-1536 (109)		27	39	3.9×10^{-04}	-8.7×10^{-04}	36
GR	2	2	535.42955 (3)	0.803601 (0)	-14875 (8)	-198 (6)		2	31	6.0×10^{-05}	1.5×10^{-04}	31
GR	2	2	535.71834 (2824)	0.802942 (72)	-6361 (603)	-3013 (165)		29	39	3.4×10^{-04}	5.6×10^{-04}	35
GR	2	3	559.89692 (6)	0.803797 (0)	-15786 (1)			3	41	1.6×10^{-04}	-5.4×10^{-04}	39
GR	2	4	743.96491 (7)	0.803251 (0)	-15933 (1)			4	41	1.9×10^{-04}	-5.9×10^{-04}	39
GR	2	5	715.03370 (6)	0.803280 (0)	-16158 (2)			5	36	1.3×10^{-04}	2.3×10^{-04}	29
GR	2	6	613.21976 (9)	0.803439 (1)	-12741 (12)	-109 (7)		6	35	1.3×10^{-04}	-4.0×10^{-04}	33
GR	2	7	738.78581 (6)	0.803371 (0)	-14794 (7)	-70 (4)		7	36	7.5×10^{-05}	-2.6×10^{-04}	34
GR	2	8	961.20099 (7)	0.802686 (0)	-16091 (1)			8	39	1.4×10^{-04}	-3.2×10^{-04}	39
GR	2	9	859.89484 (14)	0.802861 (1)	-13382 (10)			9	27	1.4×10^{-04}	-4.3×10^{-04}	18
GR	2	9	859.44187 (4485)	0.804502 (146)	-33042 (1565)	7784 (552)		26	34	3.5×10^{-04}	-7.6×10^{-04}	29

Table 3 (*continued*)
Taylor expansion coefficients for E symmetry

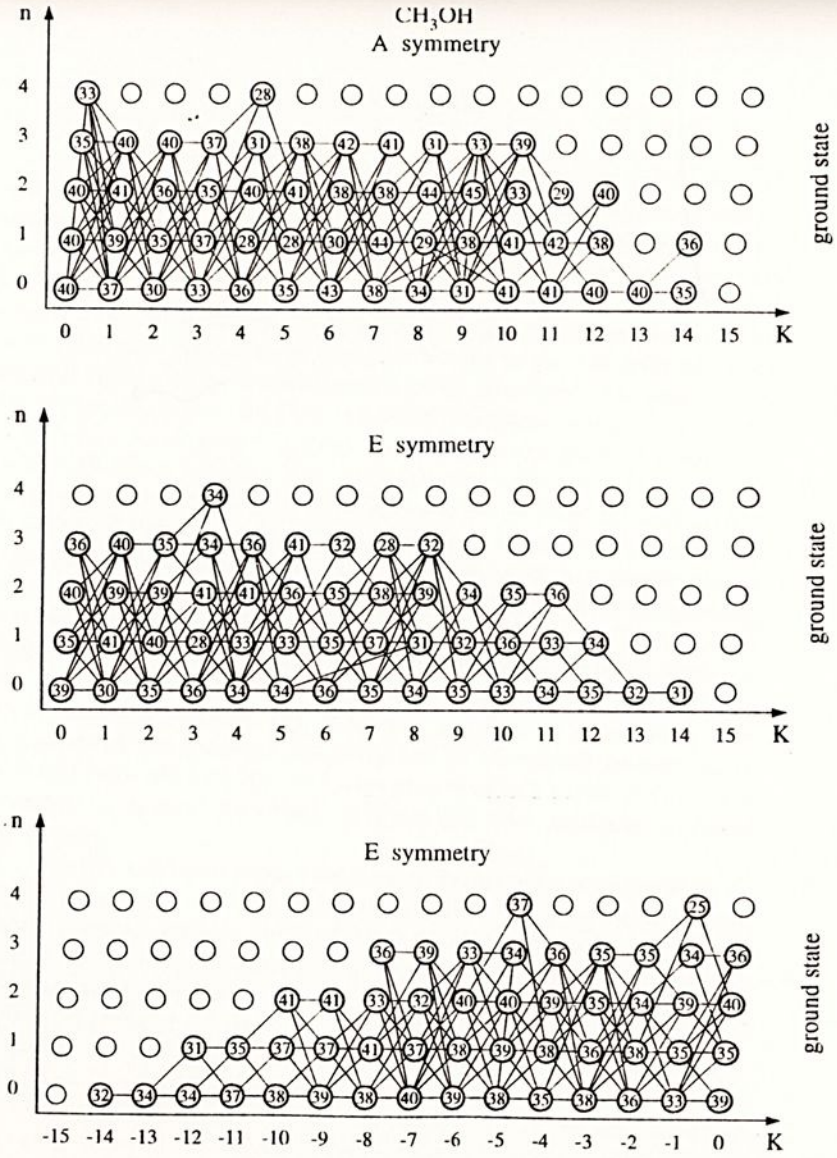
r	n	K	a_0	a_1	$a_2 \times 10^{10}$	$a_3 \times 10^{13}$	$a_4 \times 10^{15}$	J_{min}	J_{max}	rms ε	max. ε	$J_{m\,\varepsilon}$
GR	2	10	828.62970 (26)	0.802572 (3)	428 (96)	-662 (128)	-76 (6)	10	31	8.1×10^{-05}	2.1×10^{-04}	21
GR	2	10	828.38238 (5776)	0.803279 (106)	-5595 (455)			30	35	9.1×10^{-04}	-1.8×10^{-03}	34
GR	2	11	1030.83945 (10)	0.802637 (0)	-15942 (3)			11	34	1.1×10^{-04}	3.3×10^{-04}	29
GR	3	-8	1225.44508 (8)	0.801625 (0)	-16244 (3)			8	33	1.2×10^{-04}	-2.7×10^{-04}	8
GR	3	-7	957.19297 (7)	0.802595 (0)	-16060 (7)	-39 (3)		7	38	9.3×10^{-05}	-2.4×10^{-04}	36
GR	3	-6	1043.96872 (4)	0.802013 (0)	-15718 (2)			6	31	6.9×10^{-05}	1.8×10^{-04}	27
GR	3	-5	1250.68383 (11)	0.799342 (1)	-4366 (48)	-4597 (61)	81 (3)	5	34	1.2×10^{-04}	3.4×10^{-04}	28
GR	3	-4	996.74105 (4)	0.802254 (0)	-16139 (6)	-24 (3)		4	36	7.3×10^{-05}	1.9×10^{-04}	33
GR	3	-3	800.96258 (4)	0.802595 (0)	-15596 (9)	-54 (6)		3	33	8.4×10^{-05}	2.7×10^{-04}	33
GR	3	-2	1000.31522 (3)	0.802091 (0)	-15919 (6)	-38 (4)		2	33	5.5×10^{-05}	-1.4×10^{-04}	28
GR	3	-1	1116.93833 (4)	0.801632 (0)	-16117 (7)	-43 (4)		1	34	8.3×10^{-05}	-2.1×10^{-04}	30
GR	3	0	879.01978 (2)	0.802596 (0)	-15993 (1)			0	33	6.6×10^{-05}	-2.1×10^{-04}	30
GR	3	1	831.80185 (4)	0.802801 (0)	-15957 (5)	-17 (2)		1	40	1.1×10^{-04}	-4.2×10^{-04}	38
GR	3	2	1067.97400 (7)	0.801871 (1)	-16029 (13)	-91 (7)		2	35	1.6×10^{-04}	-5.5×10^{-04}	31
GR	3	3	1074.31647 (5)	0.801797 (0)	-16001 (2)			3	34	1.2×10^{-04}	3.9×10^{-04}	32
GR	3	4	872.91439 (7)	0.802637 (1)	-15662 (10)	-24 (5)		4	36	1.2×10^{-04}	-3.8×10^{-04}	33
GR	3	5	974.54672 (6)	0.802402 (0)	-16156 (1)			5	41	1.4×10^{-04}	3.2×10^{-04}	38
GR	3	6	1246.39988 (5)	0.801332 (0)	-16270 (3)			6	30	8.7×10^{-05}	2.1×10^{-04}	29
GR	3	7	1142.82302 (12)	0.801656 (1)	-15736 (10)			7	27	1.6×10^{-04}	-5.4×10^{-04}	23
GR	3	8	979.33446 (12)	0.802350 (1)	-14916 (31)	-122 (24)		8	28	8.5×10^{-05}	2.5×10^{-04}	18
GR	4	-5	1270.38997 (6)	0.801386 (0)	-16074 (2)			5	36	1.4×10^{-04}	3.5×10^{-04}	31
GR	4	-1	1241.58005 (5)	0.801172 (1)	-16360 (32)	353 (34)		1	25	9.0×10^{-05}	2.5×10^{-04}	23
GR	4	3	1345.48506 (7)	0.800807 (0)	-16565 (3)			3	34	1.7×10^{-04}	-4.8×10^{-04}	31

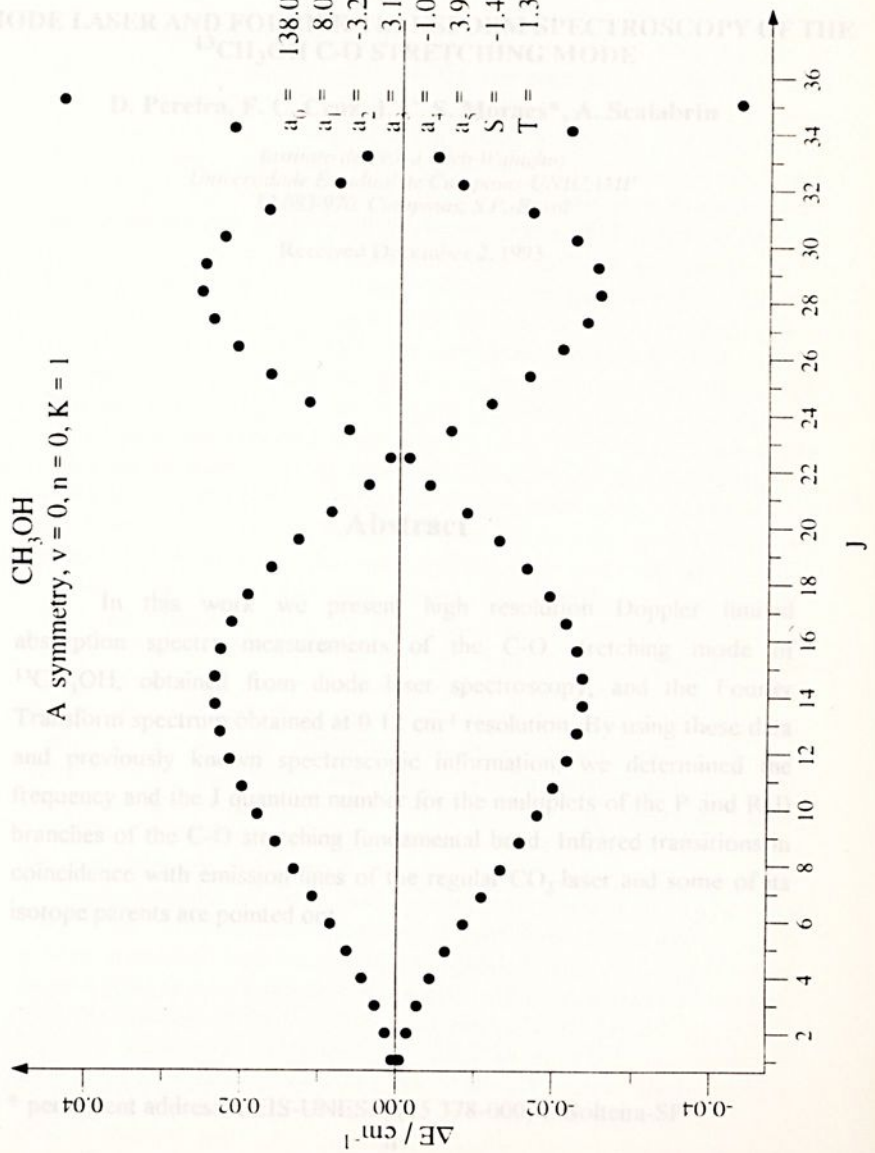
Table 3
Taylor expansion coefficients for E symmetry

r	n	k	a_0	a_1	$a_2 \times 10^{10}$	$a_3 \times 10^{13}$	$a_4 \times 10^{15}$	J_{min}	J_{max}	rms ε	max. ε	$J_{m.\varepsilon}$
GR	0	-14	813.79506 (17)	0.805688 (1)	-17782 (6)			14	31	1.1×10^{-04}	-2.0×10^{-04}	14
GR	0	-13	712.55200 (20)	0.805240 (1)	-18467 (5)			13	34	1.8×10^{-04}	-4.5×10^{-04}	34
GR	0	-12	624.46454 (28)	0.805500 (1)	-20813 (8)			12	34	3.0×10^{-04}	-6.0×10^{-04}	12
GR	0	-11	554.35465 (15)	0.805782 (0)	-19058 (3)			11	37	2.1×10^{-04}	-5.4×10^{-04}	32
GR	0	-10	482.38555 (8)	0.805929 (0)	-16819 (2)			10	38	1.2×10^{-04}	-4.3×10^{-04}	37
GR	0	-9	407.96733 (9)	0.806013 (0)	-16726 (7)	-28 (3)		9	39	1.0×10^{-04}	-3.1×10^{-04}	36
GR	0	-8	351.42257 (9)	0.806219 (1)	-18721 (8)	-16 (4)		8	38	1.1×10^{-04}	3.0×10^{-04}	34
GR	0	-7	308.83657 (6)	0.806449 (0)	-18184 (5)	-56 (2)		7	40	9.7×10^{-05}	2.8×10^{-04}	37
GR	0	-6	259.31881 (6)	0.806488 (0)	-14709 (6)	-103 (3)		6	39	1.0×10^{-04}	-4.1×10^{-04}	37
GR	0	-5	214.17391 (3)	0.806534 (0)	-13006 (3)	-58 (2)		5	38	5.3×10^{-05}	2.0×10^{-04}	36
GR	0	-4	189.07202 (8)	0.806692 (1)	-17310 (13)	197 (7)		4	35	1.5×10^{-04}	2.9×10^{-04}	33
GR	0	-3	171.55955 (7)	0.806810 (1)	-16280 (25)	-516 (27)	49 (1)	3	38	1.3×10^{-04}	3.1×10^{-04}	35
GR	0	-2	145.97621 (43)	0.806737 (11)	28799 (625)	12575 (1001)		2	20	6.0×10^{-04}	1.1×10^{-03}	20
GR	0	-2	145.78894 (2660)	0.807502 (116)	26461 (1238)			19	23	5.4×10^{-04}	-7.6×10^{-04}	22
GR	0	-2	143.96750 (4843)	0.812908 (98)	-14731 (452)			26	36	4.8×10^{-03}	-8.7×10^{-03}	26
GR	0	-1	131.85099 (15)	0.806795 (3)	-67126 (142)	10347 (177)		1	23	2.8×10^{-04}	-4.8×10^{-04}	15
GR	0	-1	131.83727 (911)	0.806580 (36)	-69229 (455)	12229 (187)		22	33	2.6×10^{-04}	3.8×10^{-04}	30
GR	0	0	137.09672 (17)	0.806923 (5)	-138802 (293)	66376 (482)		0	20	3.2×10^{-04}	-5.2×10^{-04}	0
GR	0	0	137.47366 (2197)	0.804397 (112)	-81553 (1853)	22465 (1002)		20	25	3.3×10^{-04}	-5.0×10^{-04}	21
GR	0	0	138.54144 (3423)	0.800586 (87)	-35242 (731)	3296 (201)		29	39	4.1×10^{-04}	5.6×10^{-04}	33
GR	0	1	142.60289 (8)	0.806844 (2)	-5723 (122)	-8165 (198)		1	20	1.3×10^{-04}	1.9×10^{-04}	14
GR	0	1	142.57517 (392)	0.806970 (19)	-6875 (307)	-8804 (156)		19	30	1.7×10^{-04}	3.0×10^{-04}	28
GR	0	2	143.43429 (24)	0.806807 (9)	22708 (672)			2	11	2.5×10^{-04}	-3.6×10^{-04}	10
GR	0	2	143.29292 (1227)	0.808409 (97)	-25198 (1839)			13	18	8.1×10^{-04}	-1.0×10^{-03}	17
GR	0	2	143.10774 (568)	0.809584 (24)	-43746 (238)			18	25	4.7×10^{-04}	6.9×10^{-04}	24
GR	0	3	161.13684 (11)	0.806686 (2)	1845 (56)	-1609 (54)		3	26	1.7×10^{-04}	3.5×10^{-04}	26
GR	0	3	161.28436 (1019)	0.806070 (32)	10640 (335)	-5917 (113)		25	36	2.4×10^{-04}	-5.2×10^{-04}	34
GR	0	4	194.69725 (4)	0.806732 (0)	-15445 (7)	-91 (4)		4	34	6.6×10^{-05}	2.0×10^{-04}	34
GR	0	5	222.55322 (3)	0.806632 (0)	-18466 (1)			5	32	6.2×10^{-05}	1.2×10^{-04}	27
GR	0	6	252.26291 (5)	0.806439 (0)	-15935 (1)			6	36	1.0×10^{-04}	-2.9×10^{-04}	34

Table 3 (*continued*)
Taylor expansion coefficients for E symmetry

r	n	k	a_0	a_1	$a_2 \times 10^{10}$	$a_3 \times 10^{13}$	$a_4 \times 10^{15}$	J_{min}	J_{max}	rms ε	max. ε	$J_{m.\varepsilon}$
GR	0	7	301.61387 (9)	0.806341 (1)	-15058 (13)	-52 (7)		7	35	1.2×10^{-04}	4.3×10^{-04}	34
GR	0	8	360.89703 (11)	0.806308 (1)	-17596 (15)	-91 (8)		8	34	1.1×10^{-04}	-4.3×10^{-04}	33
GR	0	9	412.15331 (13)	0.806084 (1)	-19039 (17)	-128 (9)		9	34	1.2×10^{-04}	3.3×10^{-04}	34
GR	0	10	472.46442 (9)	0.805841 (1)	-17972 (12)	-53 (6)		10	33	6.3×10^{-05}	-2.0×10^{-04}	31
GR	0	11	532.32563 (17)	0.805701 (1)	-16757 (18)	-27 (9)		11	34	1.1×10^{-04}	-2.4×10^{-04}	31
GR	0	12	635.00834 (31)	0.805584 (2)	-18571 (29)	-62 (14)		12	35	1.7×10^{-04}	-3.8×10^{-04}	32
GR	0	13	711.84473 (41)	0.805304 (3)	-21530 (45)	-112 (25)		13	32	1.4×10^{-04}	-2.7×10^{-04}	25
GR	0	14	803.48374 (107)	0.805115 (7)	-22755 (118)	-225 (66		14	31	2.6×10^{-04}	-6.2×10^{-04}	26
GR	1	-12	896.85878 (14)	0.803400 (1)	-15572 (5)			12	31	1.2×10^{-04}	2.5×10^{-04}	31
GR	1	-11	748.59394 (17)	0.803497 (1)	-11523 (16)	-124 (8)		11	35	1.1×10^{-04}	2.6×10^{-04}	13
GR	1	-10	676.21297 (11)	0.803524 (0)	-18249 (2)			10	37	1.6×10^{-04}	-3.8×10^{-04}	36
GR	1	-9	650.96235 (9)	0.804193 (1)	-22751 (9)	285 (4		9	37	9.8×10^{-05}	3.0×10^{-04}	35
GR	1	-8	597.40147 (7)	0.804097 (0)	-14412 (5)	-95 (2)		8	41	1.0×10^{-04}	3.5×10^{-04}	15
GR	1	-7	491.76728 (30)	0.804392 (3)	-33422 (85)	2143 (90)	15 (3)	7	37	2.8×10^{-04}	7.2×10^{-04}	14
GR	1	-6	470.94092 (5)	0.804298 (0)	-19755 (5)	35 (2		6	38	7.6×10^{-05}	-2.1×10^{-04}	37
GR	1	-5	507.56414 (15)	0.804490 (2)	-1593 (41)	-1806 (41)	-27 (1)	5	39	2.1×10^{-04}	-6.4×10^{-04}	37
GR	1	-4	409.74529 (7)	0.804529 (1)	-5674 (22)	-464 (23)	-25 (1)	4	38	1.0×10^{-04}	3.6×10^{-04}	34
GR	1	-3	352.21604 (4)	0.804591 (0)	-20461 (6)	119 (3		3	36	8.7×10^{-05}	2.1×10^{-04}	30
GR	1	-2	381.39379 (4)	0.804656 (1)	-28396 (23)	303 (30)	32 (1)	2	34	7.2×10^{-05}	-2.5×10^{-04}	33
GR	1	-1	415.28642 (2)	0.804745 (0)	-12711 (9)	-225 (8)		1	27	3.6×10^{-05}	-9.4×10^{-05}	26
GR	1	0	336.88762 (2)	0.804687 (0)	-22138 (4)	161 (2)		0	34	4.8×10^{-05}	1.0×10^{-04}	26
GR	1	1	330.56032 (6)	0.804674 (0)	-21220 (6)	119 (3)		1	41	1.6×10^{-04}	-5.9×10^{-04}	38
GR	1	2	405.91671 (7)	0.804652 (1)	-11849 (21)	-85 (20)	-9 (1)	2	40	1.4×10^{-04}	4.5×10^{-04}	40
GR	1	3	418.09287 (9)	0.804746 (2)	-59124 (166)	10774 (316)		3	18	8.7×10^{-05}	1.6×10^{-04}	16
GR	1	3	418.10089 (160)	0.804736 (9)	-60715 (161)	14251 (93)		16	25	6.0×10^{-05}	-9.7×10^{-05}	20
GR	1	4	380.54281 (3)	0.804523 (0)	-20502 (6)	178 (4)		4	33	5.4×10^{-05}	-1.2×10^{-04}	23
GR	1	5	426.23850 (21)	0.804311 (4)	26124 (215)	-12751 (321)		5	20	1.5×10^{-04}	2.5×10^{-04}	5
GR	1	5	426.12953 (789)	0.804842 (32)	18271 (421)	-9713 (177)		21	33	3.5×10^{-04}	-7.0×10^{-04}	32
GR	1	6	539.63253 (89)	0.804963 (19)	-54727 (1122)	19288 (1952)		6	18	3.6×10^{-04}	-8.7×10^{-04}	7
GR	1	6	539.68600 (625)	0.804576 (38)	-45296 (747)	11450 (476)		18	26	1.2×10^{-04}	-1.8×10^{-04}	20


CH3OH
A symmetry
n
K
ground state
E symmetry
n
K
ground state
E symmetry
n
K
ground state


CH3OH
A symmetry, v = 0, n = 0, K = 1
a0 = 138.0807 cm
a1 = 8.0682×10-01 cm
a2 = -3.2082×10-06 cm
a3 = 3.1267×10-11 cm
a4 = -1.0123×10-13 cm
a5 = 3.9880×10-17 cm
S = -1.4373×10-02 cm
T = 1.3937×10-06 cm
ΔE / cm-1
J

International Journal of Infrared and Millimeter Waves, Vol. 15, No. 2, 1994

DIODE LASER AND FOURIER TRANSFORM SPECTROSCOPY OF THE $^{13}CH_3OH$ C-O STRETCHING MODE

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Received December 2, 1993

Abstract

In this work we present high resolution Doppler limited absorption spectra measurements of the C-O stretching mode of $^{13}CH_3OH$, obtained from diode laser spectroscopy, and the Fourier Transform spectrum obtained at 0.12 cm^{-1} resolution. By using these data and previously known spectroscopic information, we determined the frequency and the J quantum number for the multiplets of the P and R(J) branches of the C-O stretching fundamental band. Infrared transitions in coincidence with emission lines of the regular CO_2 laser and some of its isotope parents are pointed out.

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Introduction

Since the pioneering work on $^{13}CH_3OH$ by Borden and Barker [1] and Koehler and Dennison [2], the vibrational spectra of methanol and its isotopic species have been the subject of several investigations. The introduction of the optically pumped molecular lasers by Chang and Bridges [3] in 1970 has added a strong practical interest to the spectroscopy of methanol. In fact, CH_3OH and its isotopomers are the most important and efficient lasing molecules in the Far-Infrared (FIR) spectral region, with over thousand observed laser lines . The main reason for this success is the excellent overlap of transitions in the vibrational C-O stretching mode with CO_2 laser lines. Besides the practical interest on those FIR laser sources, the spectroscopic data associated with the Infrared (IR) absorption/ FIR emission cycle are the basis for a theoretical treatment of the molecules, stimulating new kinds of roto-vibrational experiments to be performed. In 1978 it was published the first work reporting laser action from optically pumped $^{13}CH_3OH$ [4]. In following, over hundred FIR laser lines were observed [5-8], several of which being assigned [4,5,7-9]. Infrared data associated with the C-O stretch were also obtained by using Diode laser [10], Fourier Transform [9], Stark [11], and Optoacoustic techniques [8], allowing a better understanding and assignment of the spectrum. Recently, the IR vibrational frequencies of $^{13}CH_3OH$ from 400 to 4.000 cm^{-1} were presented by Cruz et al. [12], who performed a normal coordinate analysis for nine different methanol isotopomers.

In this work, we present the Fourier Transform spectrum of the C-O stretching mode of $^{13}CH_3OH$, obtained at 0.12 cm^{-1} resolution, and Doppler limited spectra, obtained from Diode laser spectroscopy. An analysis of these data, together with previously known data on the FIR laser lines and molecular parameters, allowed us to determine the angular quantum number J of the n=0 P and R branches multiplets and IR transitions of $^{13}CH_3OH$ in coincidence with emission lines of the regular CO_2 laser and some of its isotope parents. This work is part of an initiated systematic investigation on the C-O stretching vibrational band of $^{13}CH_3OH$, involving also high resolution Fourier Transform spectroscopy of this fundamental vibrational mode [13].

Experimental Details

Fourier Transform and Diode lasers experiments were realized. In both, commercial samples of $^{13}CH_3OH$ with nominal enrichment of 91% atom ^{13}C were used. The continuous IR spectrum of $^{13}CH_3OH$ between 400 and 4.000 cm^{-1} was obtained using a Nicolet 60SXB Fourier Transform Spectrometer. Resolutions of 4 cm^{-1} and 0.12 cm^{-1} with Happ-Genzel and Boxcar apodization, respectively, were used. Gas cells with KBr windows and optical path of 10 cm were used. The sample pressure was about 2 Torr at room temperature. The rotational structure of the C-O stretching mode was resolved only in the spectra with 0.12 cm^{-1} resolution, as shown in Fig.1. The spectra of $^{13}CH_3OH$ indicated a contamination with $^{12}CH_3OH$, due to the low degree of purity of the sample used, as shown in Fig.1-a. The computational subtraction technique between spectra of $^{13}CH_3OH$ and $^{12}CH_3OH$ was used to settle this problem and the result is given in Fig. 1-b. The Doppler limited high resolution measurements of absorption transitions in the C-O stretching mode of $^{13}CH_3OH$ were performed by using a Spectra Physics Diode laser spectrometer, model SP 5000 and a multipass cell, model L03. The sample gas pressure in the cell, typically less than 100 mTorr, was measured with a MKS Baratron and the optical pathlength used was 417 cm. Under these conditions the Diode laser spectra were Doppler limited, with a FWHM ~ 0.002 cm^{-1} at T=296K. Liquid Helium cooled PbSnSe diode lasers were current and temperature tuned to cover the spectral region of $^{13}CH_3OH$ C-O stretching band (not entirely continuously tunable). The absolute calibration for each region of the diode laser spectra was performed registering simultaneously the $^{13}CH_3OH$ absorption spectra (pressure of 1 Torr in a 16 cm long cell) with spectra presenting known lines of CO_2, heated at 373K, and/or NH_3, at 1 Torr in the multipass cell. As the mode-hopping tuning behaviour of the diodes required variations of diode laser current and temperature for spectral runs of only about 0.4 cm^{-1} in extent, a small final part of a spectrum is always overlapped with the initial part of the following one. In this way, a relative frequency calibration is also needed. This calibration was obtained using a Ge-etalon with a Free-Spectral-Range of 0.01631 cm^{-1} at 296K. A HgCdTe N_2 cooled bolometer was used as detector. Thousands IR transitions were catalogued in this way. Figure 2 present typical spectra. Figure 2-a shows registered spectrum of $^{13}CH_3OH$ superimposed to a CO_2 calibration line, while Figure 2-b shows the $^{13}CH_3OH$ spectrum

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without absolute calibration lines. In both, the lines assigned with an asterisk refer to the same transition, with the upper curve referring to the absorption spectra and the lower one referring to the etalon transmission peaks used for relative calibration.

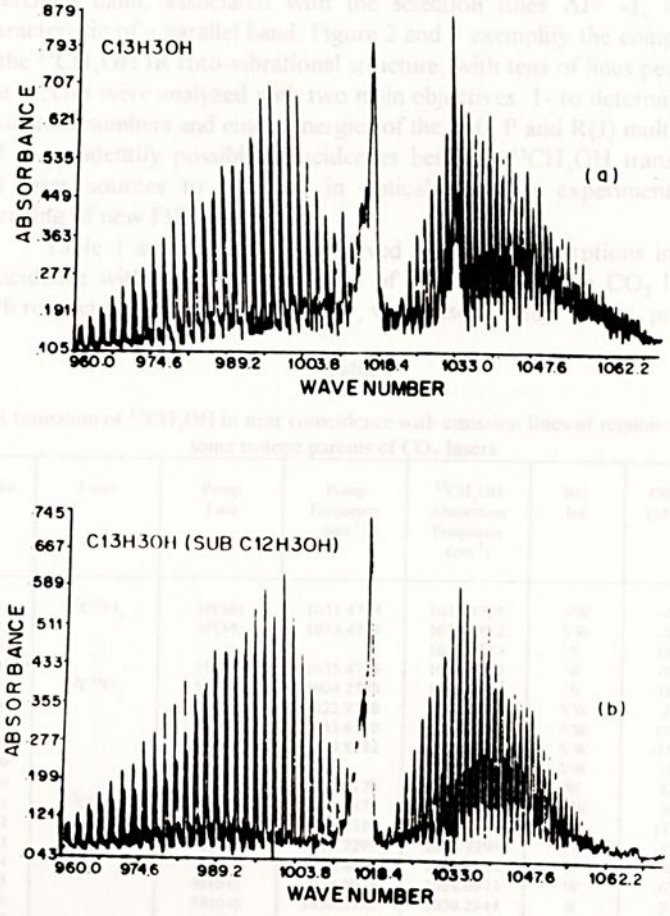


Figure 1- Fourier Transform Spectrum at 0.12 cm^{-1} resolution of $^{13}CH_3OH$ in the region of the C-O stretching mode. Figure 1-a indicates a contamination with normal CH_3OH (see text). Figure 1-b shows the infrared absorption spectrum of $^{13}CH_3OH$ from which the contribution of the normal CH_3OH has been subtracted. Note the well defined P, Q and R branches and the resolution of the rotational structure.

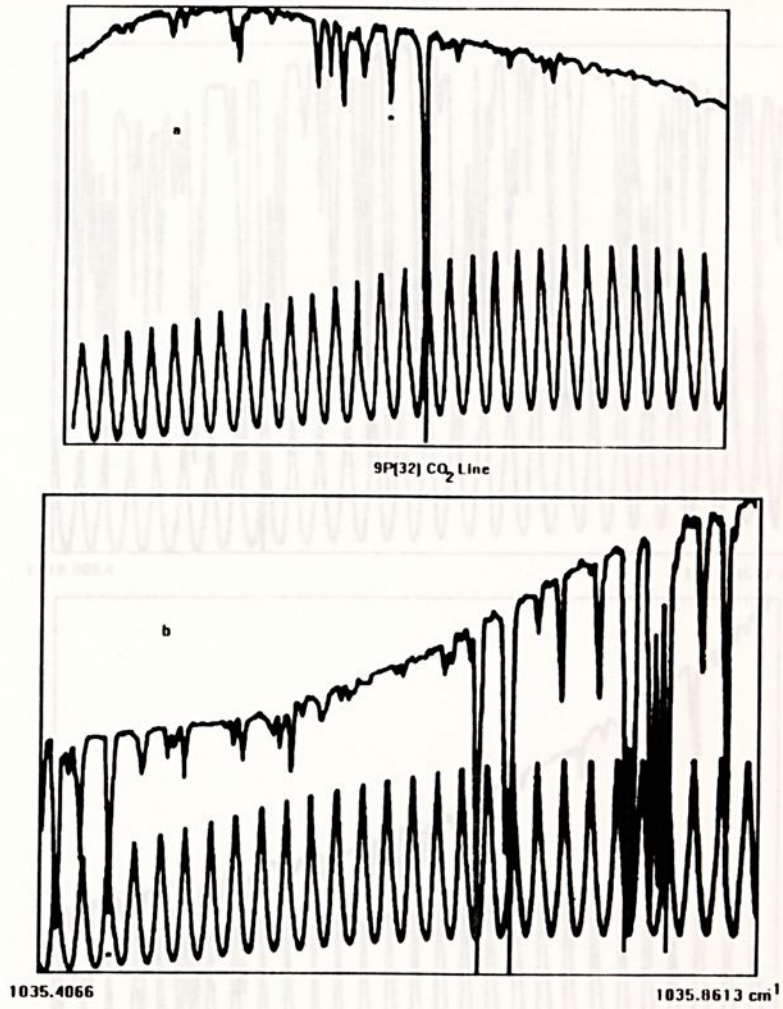


Figure 2- Typical Diode Laser spectrum of $^{13}CH_3OH$. In a- we have the infrared spectrum superimposed to the 9P(32) CO_2 line, used as absolute calibration. In b- we have the spectrum without absolute calibration line. In both, the lower curve refers to the Fabry-Perot fringes used for relative calibration. The transitions assigned with asterisk are the same in both spectra. We can note the coincidence of the CO_2 line with a weak $^{13}CH_3OH$ infrared transition.

Results

Figure 1 shows the expected P, Q, and R(J) structure of the C-O Stretching band, associated with the selection rules $\Delta J = -1, 0, +1$, characteristic of a parallel band. Figure 2 and 3 exemplify the complexity of the $^{13}CH_3OH$ IR roto-vibrational structure, with tens of lines per cm^{-1}. The spectra were analyzed with two main objectives: 1- to determine the J quantum numbers and eingenenergies of the n=0, P and R(J) multiplets, and 2- to identify possible coincidences between $^{13}CH_3OH$ transitions and laser sources to be used in optical pumping experiments for searching of new FIR laser lines.

Table 1 summarizes the observed $^{13}CH_3OH$ absorptions in near coincidence with emission laser lines of different isotope CO_2 lasers. With respect to the regular CO_2 laser, we present only three pump

Table 1

IR transition of $^{13}CH_3OH$ in near coincidence with emission lines of regular and some isotope parents of CO_2 lasers

No.	Laser	Pump Line	Pump Frequency (cm^{-1})	$^{13}CH_3OH$ Absorption Frequency (cm^{-1})	Rel. Int.	Offset (MHz)
01	$^{12}C^{16}O_2$	9P(36)	1031.4774	1031.4761	VW	-40
02		9P(34)	1033.4879	1033.4852	VW	-80
03				1033.4927	S	140
04		9P(32)	1035.4736	1035.4709	W	-75
05	$^{13}C^{16}O_2$	9P(16)	1004.2798	1004.2744	S	-162
06		9R(06)	1022.9280	1022.9269	VW	-33
07		9R(22)	1033.6308	1033.6370	VW	186
08		9R(24)	1034.8382	1034.8331	VW	-153
09				1034.8388	VW	18
10		9R(26)	1036.0170	1036.0184	W	42
11	$^{13}C^{18}O_2$	9P(28)	1005.4874	1005.4874	VW	0
12		9P(12)	1018.2310	1018.2347	S	112
13		9P(10)	1019.7299	1019.7294	VW	-15
14		9P(06)	1022.6642	1022.6626	W	-48
15		9P(04)	1024.0996	1024.0973	W	-69
16		9R(04)	1030.2953	1030.2944	S	-27
17		9R(06)	1031.6134	1031.6139	M	15
18	$^{12}C^{16}O_2$ sequential	9R(08) 002-101_2	1032.9102	1032.9091	VW	-33
19		m=39	1025.2569	1025.2576	W	21
20		m=31	1033.3031	1033.2993	S	-114
21				1033.3081	S	90

VW: Very Weak, W: Weak, M: Medium, S: Strong

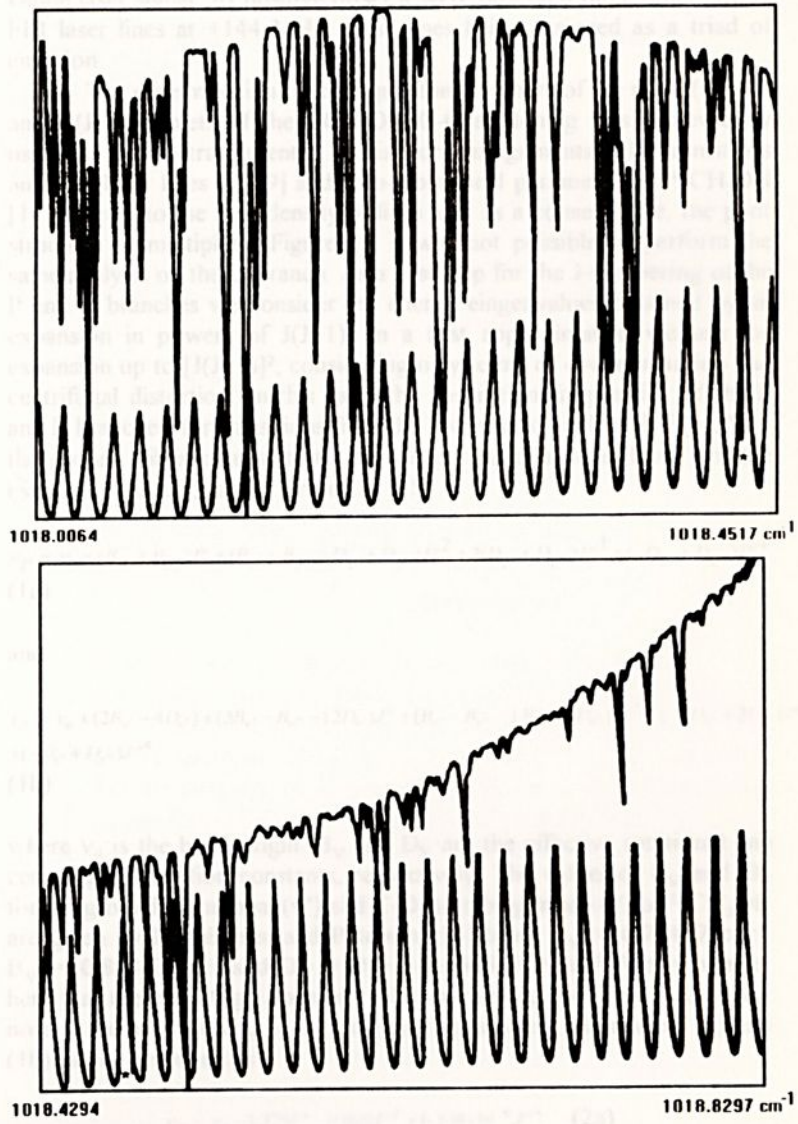


Figure 3- Part of the crowded $^{13}CH_3OH$ infrared spectrum in the region near the Q-branch origin.

lines in coincidence with $^{13}CH_3OH$ IR absorbing transitions. This is due to the fact that Mukhopadhyay et. al [9] pointed out previously thirty eight $^{13}CH_3OH$ transitions within the 180 MHz tunability of CO_2 laser lines. The CO_2 pump lines referred in Table 1, namely the 9P(32), 9P(34) and 9P(36) were not discussed in [9]. For the 9P(32) and 9P(36), IR transitions of very weak intensities were observed at -75 MHz and -50 MHz respectively. Those offsets are in good agreement with the values of -83 MHz and -60 MHz measured through the precise Transferred Lamb-Dip technique [8]. The low intensity of the IR transitions (see Figure 2-b) is indicative of transitions between energy levels with $n \neq 0$, and the short wavelength of the FIR laser lines pumped by the 9P(32) suggest laser transitions with $\Delta n \neq 0$. The 9P(34) CO_2 laser line is a very interesting case. We could observe two Doppler limited $^{13}CH_3OH$ near coincidences around this line (Figure 4). One of them is a weak absorption at -80 MHz and the second one, located at +140 MHz, is a good candidate to generate strong FIR laser lines. In a careful work with this pump line, Carelli et al.[8] observed, at the negative side of the CO_2 laser gain curve, FIR laser emissions at -114 MHz and -82 MHz. This demonstrates the existence of two IR transitions within the Doppler

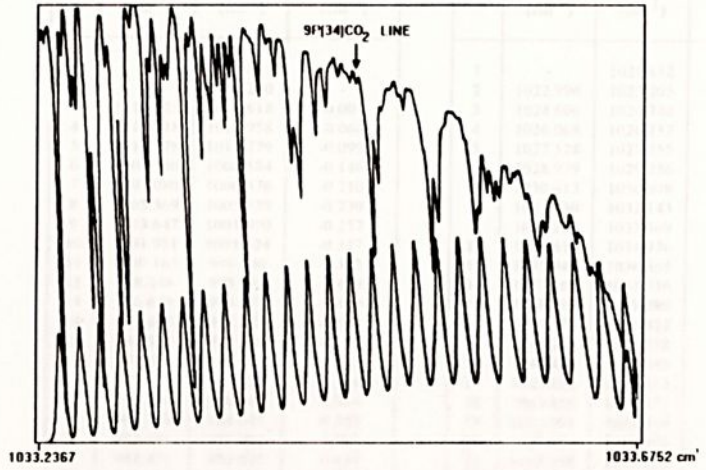


Figure 4- Diode Laser spectrum of $^{13}CH_3OH$ around the 9P(34) CO_2 line. Two Doppler limited transitions in near coincidences are observed: one is a weak absorption at -80 MHz and the other is a strong absorption at +140 MHz.

Diode laser signal. At positive offset it were observed three other strong FIR laser lines at +144 MHz, these lines being assigned as a triad of emission.

The determination of the J quantum numbers of the main (n=0) P and R(J) multiplets of the $^{13}CH_3OH$ C-O stretching was achieved by using the IR spectra presented in this work, assignments of IR transitions and FIR laser lines [5,8,9] and roto-vibrational parameters of $^{13}CH_3OH$ [14]. Owing to the high density of lines and, as a consequence, the poor structure of multiplets (Figure 3), it was not possible to perform the same analysis on the Q-branch. As a first step for the J-numbering of the P and R branches we consider the energy eingenvalues obtained by an expansion in powers of J(J+1). In a first approximation we use the expansion up to $[J(J+1)]^2$, considering only terms of overall rotation and centrifugal distortion. In this case, the absorption frequencies of the P and R branches, for transitions from the lower rotational level $E_{V''}(J'')$ of the ground vibrational state to the upper rotational level $E_{V'}(J')$ of the excited stretching, can be written as [15]:

$$\nu_P = \nu_o - (B_{v'} + B_{v''})J'' + (B_{v'} - B_{v''} - D_{v'} + D_{v''})J''^2 + 2(D_{v'} + D_{v''})J''^3 + (-D_{v'} + D_{v''})J''^4 \quad (1a)$$

and

$$\nu_R = \nu_o + (2B_{v'} - 4D_{v'}) + (3B_{v'} - B_{v''} - 12D_{v'})J'' + (B_{v'} - B_{v''} - 13D_{v'} + D_{v''})J''^2 + (-6D_{v'} + 2D_{v''})J''^3 + (-D_{v'} + D_{v''})J''^4 \quad (1b)$$

where ν_0 is the band origin. B_V and D_V are the effective rotational and centrifugal distortion constants, respectively. The values of B_V and D_V for the ground vibrational (v") and C-O stretching mode (v') of $^{13}CH_3OH$ are given by Henningsen and Petersen [14] being $B_{V'} = 0.79447$ cm^{-1}, $B_{V''} = 0.80343$ cm^{-1} and $D_{V'} = D_{V''} = 1.6345\ 10^{-6}$ cm^{-1}. We remember here that the centrifugal constant values presented are those quoted for normal methanol. Using these molecular parameters, equations (1a) and (1b) can be rewritten as

$$\nu_P = \nu_o - 1.579J'' - 0.009J''^2 + 6.538\times10^{-6}J''^3 \quad (2a)$$

$$\nu_R = \nu_o + 1.588 + 1.579J'' - 0.009J''^2 - 6.538\ 10^{-6}J''^3 \quad (2b)$$

with the results in cm^{-1}.

The band origin was stimated at 1018.5 cm^{-1} by Petersen and Henningsen to perform assignments for $^{13}CH_3OH$ FIR laser transitions [5]. This value is in good agreement with the value of 1018.492 cm^{-1} obtained directly from the diode laser spectrum (Figure 3), also indicating the correctness of the proposed assignments [5]. Using the experimental value of 1018.492 cm^{-1} for the band origin and equations (2a) and (2b), we were able to calculate the frequencies of the P(J) and R(J) multiplets. These values are in the third column of Tables 2 and 3 respectively. In the second column, we report the experimental values corresponding to the transition of higher intensity within the multplet associated to each J [16]. Fourth column of Tables 2 and 3 presents the differences between the calculated and observed frequencies. The agreement may be considered satisfactory if we consider the approximations included in equations (2a) and (2b). All assignments of IR and FIR transitions between levels of the

Table 2 - P branch

J	υ_{exp} (cm^{-1})	υ_{calc} (cm^{-1})	υ_{calc}-υ_{exp} (cm^{-1})
1	-	1016.885	-
2	-	1015.260	-
3	1013.623	1013.618	-0.005
4	1012.018	1011.958	-0.060
5	1010.378	1010.279	-0.099
6	1008.730	1008.584	-0.146
7	1007.080	1006.870	-0.210
8	1005.369	1005.139	-0.230
9	1003.647	1003.390	-0.257
10	1001.951	1001.624	-0.327
11	1000.163	999.840	-0.323
12	998.448	998.038	-0.410
13	996.639	996.219	-0.420
14	994.632	994.383	-0.249
15	992.824	992.530	-0.294
16	991.006	990.659	-0.437
17	989.074	988.770	-0.304
18	987.239	986.865	-0.374
19	985.329	984.942	-0.387
20	983.401	983.002	-0.399
21	981.471	981.045	-0.426
22	979.538	979.071	-0.467
23	977.600	977.080	-0.520
24	975.565	975.072	-0.493
25	973.579	973.047	-0.532

Table 3 - R branch

J	υ_{exp} (cm^{-1})	υ_{calc} (cm^{-1})	υ_{calc}-υ_{exp} (cm^{-1})
1	-	1021.652	-
2	1022.996	1023.205	0.209
3	1024.606	1024.740	0.134
4	1026.068	1026.257	0.189
5	1027.528	1027.755	0.227
6	1028.979	1029.236	0.257
7	1030.413	1030.698	0.285
8	1031.830	1032.143	0.313
9	1033.280	1033.569	0.289
10	1034.617	1034.976	0.359
11	1035.947	1036.365	0.418
12	1037.269	1037.736	0.467
13	1038.593	1039.089	0.496
14	1039.922	1040.422	0.500
15	1041.219	1041.738	0.519
16	1042.450	1043.035	0.585
17	1043.658	1044.313	0.655
18	1044.856	1045.573	0.717
19	1045.966	1046.814	0.848
20	1047.153	1048.033	0.880
21	1048.256	1049.240	0.984
22	1049.408	1050.424	1.016
23	1050.519	1051.590	1.071
24	1051.556	1052.737	1.181
25	1052.666	1053.866	1.200

main multplets (n = 0), presented in references 4, and 9 also are in good agreement with our J numbering of the P and R(J) branches.

Conclusions

Doppler limited absorption data of the C-O stretching mode of $^{13}CH_3OH$ obtained from Diode laser spectroscopy were presented. It was presented also the Fourier Transform spectrum of this vibrational mode, at 0.12 cm^{-1} resolution. An analysis of these data, together with previously known spectroscopic information, allowed us to determine the frequency and the total angular momentum quantum number J for the main multiplets of P and R(J) branches of the C-O stretching mode. We have also pointed out possible coincidences between frequencies of $^{13}CH_3OH$ IR transitions and emission laser lines of regular CO_2 laser and some isotope parents. These transitions can be used to generate new FIR laser lines when optically pumped by powerful lasers.

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Dados Identificados do "CH3OH 25 a 350 cm-1"

International Journal of Infrared and Millimeter Waves, Vol. 15, No. 2, 1994

AN EQUIVALENT CIRCUIT CHARACTERIZATION OF POWER MOSFETS ACCOUNTING FOR HIGH FIELD AND HIGH FREQUENCY EFFECTS

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Received November 5, 1993

Abstract

An equivalent circuit model for analyzing the AC characteristics of power VDMOS transistors is presented. The model accounts for high field and saturation effects. This is achieved by incorporating dependent voltage and current sources in the device model. Results are given for the AC characteristics of a POLYFET F2001 Power VDMOSFET rated with a drain current of 1.4A , power out of 2.5W at 1GHz. The linear, quasi-saturation and saturation regions of the IV characteristics are accounted for in the analysis. The small signal device parasitics are extracted through s-parameter methods. The s-parameter results were used to extract the frequency dependent parasitics including parasitic capacitances, inductances and transconductances.

I. Introduction

Power MOSFETs are particularly used to design many high frequency circuits and are found in transmitters and receivers. For such high frequency applications, device modeling must be introduced to provide a-priori knowledge of system performance [1]. This is done by high frequency characterization and modeling to provide performance information.

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ANEXO B

Linhas Identificadas do $^{13}CH_3OH$

25 a 350 cm^{-1}

Linhas Identificadas - 13CH3OH

Index	upper state T (n, K ; J) v	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 1	R (1, 2 −; 12) GR	←(1, 1 −; 11) GR	A	0.326 44	0.0	0
* 2	P (0, −4 ; 10) GR	←(0, −3 ; 11) GR	E	0.333 54	0.1	0
* 3	P (0, 4 ; 20) GR	←(0, 3 ; 21) GR	E	0.378 90	0.1	0
* 4	Q (0, 1 −; 5) GR	←(0, 1 +; 5) GR	A	0.3975 3	0.0	0
* 5	P (0, 3 ; 10) GR	←(0, 2 ; 11) GR	E	0.430 90	0.0	0
* 6	P (0, 1 +; 5) GR	←(0, 0 +; 6) GR	A	0.477 02	0.1	0
* 7	R (1, 2 +; 12) GR	←(1, 1 +; 11) GR	A	0.522 61	0.0	0
8	Q (0, 1 −; 6) GR	←(0, 1 +; 6) GR	A	0.556 48	0.0	0
* 9	Q (0, 2 ; 31) GR	←(0, 1 ; 31) GR	E	0.596 09	0.0	0
* 10	P (0, 3 +; 4) GR	←(0, 2 +; 5) GR	A	0.637 89	0.0	0
* 11	P (0, 3 −; 4) GR	←(0, 2 −; 5) GR	A	0.640 29	0.0	0
* 12	Q (0, 2 ; 30) GR	←(0, 1 ; 30) GR	E	0.678 11	−0.1	0
* 13	Q (0, 1 −; 7) GR	←(0, 1 +; 7) GR	A	0.741 84	0.0	0
* 14	Q (0, 2 ; 29) GR	←(0, 1 ; 29) GR	E	0.756 28	0.0	0
* 15	P (0, 1 ; 2) GR	←(0, 0 ; 3) GR	E	0.799 89	0.0	0
* 16	Q (0, 2 ; 28) GR	←(0, 1 ; 28) GR	E	0.829 26	0.0	0
* 17	Q (0, 2 ; 27) GR	←(0, 1 ; 27) GR	E	0.895 79	0.1	0
* 18	P (0, 4 ; 12) GR	←(0, 3 −; 13) GR	A	0.899 92	0.0	0
* 19	Q (0, 2 ; 3) GR	←(0, 1 ; 3) GR	E	0.902 20	−0.1	0
* 20	Q (0, 2 ; 4) GR	←(0, 1 ; 4) GR	E	0.902 31	0.0	0
* 21	Q (0, 2 ; 2) GR	←(0, 1 ; 2) GR	E	0.902 39	0.0	0
* 22	Q (0, 2 ; 5) GR	←(0, 1 ; 5) GR	E	0.903 03	0.0	0
* 23	P (0, 4 ; 12) GR	←(0, 3 +; 13) GR	A	0.904 15	0.0	0
* 24	Q (0, 2 ; 6) GR	←(0, 1 ; 6) GR	E	0.904 72	0.0	0
* 25	Q (0, 2 ; 7) GR	←(0, 1 ; 7) GR	E	0.907 81	−0.1	0
* 26	Q (0, 2 ; 8) GR	←(0, 1 ; 8) GR	E	0.912 77	0.0	0
* 27	Q (0, 2 ; 9) GR	←(0, 1 ; 9) GR	E	0.920 02	−0.1	0
* 28	Q (0, 2 ; 10) GR	←(0, 1 ; 10) GR	E	0.930 00	0.0	0
* 29	Q (0, 2 ; 11) GR	←(0, 1 ; 11) GR	E	0.942 91	0.0	0
* 30	Q (0, 1 −; 8) GR	←(0, 1 +; 8) GR	A	0.953 59	0.0	0
* 31	Q (0, 2 ; 26) GR	←(0, 1 ; 26) GR	E	0.954 69	−0.1	0
* 32	Q (0, 2 ; 12) GR	←(0, 1 ; 12) GR	E	0.958 92	0.1	0
* 33	Q (0, 2 ; 13) GR	←(0, 1 ; 13) GR	E	0.977 85	0.0	0
* 34	Q (0, 2 ; 14) GR	←(0, 1 ; 14) GR	E	0.999 21	0.0	0
* 35	Q (0, 2 ; 25) GR	←(0, 1 ; 25) GR	E	1.004 96	0.0	0
* 36	Q (0, 2 ; 15) GR	←(0, 1 ; 15) GR	E	1.022 16	0.1	0
* 37	Q (0, 2 ; 16) GR	←(0, 1 ; 16) GR	E	1.045 47	0.0	0
* 38	Q (0, 2 ; 24) GR	←(0, 1 ; 24) GR	E	1.045 73	0.0	0
* 39	Q (0, 2 ; 17) GR	←(0, 1 ; 17) GR	E	1.067 55	−0.1	0
* 40	Q (0, 2 ; 23) GR	←(0, 1 ; 23) GR	E	1.076 45	0.1	0
* 41	R (0, −1 ; 4) GR	←(0, 0 ; 3) GR	E	1.080 70	0.0	0
* 42	Q (0, 2 ; 18) GR	←(0, 1 ; 18) GR	E	1.086 60	−0.1	0
* 43	Q (0, 2 ; 22) GR	←(0, 1 ; 22) GR	E	1.096 87	0.0	0
* 44	Q (0, 2 ; 19) GR	←(0, 1 ; 19) GR	E	1.100 72	0.0	0
* 45	Q (0, 2 ; 21) GR	←(0, 1 ; 21) GR	E	1.107 20	0.0	0
* 46	Q (0, 2 ; 20) GR	←(0, 1 ; 20) GR	E	1.108 10	0.0	0
* 47	P (0, 2 +; 9) GR	←(0, 1 +; 10) GR	A	1.173 20	0.0	0
* 48	Q (0, 1 −; 9) GR	←(0, 1 +; 9) GR	A	1.191 65	−0.1	0
* 49	P (0, 5 ; 16) GR	←(0, 4 ; 17) GR	E	1.255 73	−0.1	0
* 50	P (0, −6 ; 27) GR	←(0, −5 ; 28) GR	E	1.263 91	0.1	0
* 51	P (0, 2 −; 8) GR	←(0, 1 −; 9) GR	A	1.397 78	0.0	0
* 52	Q (0, 1 −; 10) GR	←(0, 1 +; 10) GR	A	1.455 95	0.0	0
53	R (1, 1 ; 5) GR	←(1, 0 ; 4) GR	E	1.546 92	−2.0	0
* 54	R (2, 0 ; 1) GR	←(2, 0 ; 0) GR	E	1.568 34	0.1	0
* 55	R (2, 0 +; 1) GR	←(2, 0 +; 0) GR	A	1.568 76	0.0	0
* 56	R (1, 0 ; 1) GR	←(1, 0 ; 0) GR	E	1.570 55	0.1	0
* 57	R (1, 0 +; 1) GR	←(1, 0 +; 0) GR	A	1.570 89	0.1	0
* 58	R (0, 0 +; 1) GR	←(0, 0 +; 0) GR	A	1.574 60	−0.1	0
* 59	R (0, 0 ; 1) GR	←(0, 0 ; 0) GR	E	1.574 74	0.0	0
* 60	P (0, 6 ; 17) GR	←(0, 5 ; 18) GR	E	1.599 44	0.0	0
* 61	P (0, −2 ; 7) GR	←(0, −1 ; 8) GR	E	1.618 79	0.1	0
* 62	P (0, −5 ; 14) GR	←(0, −4 ; 15) GR	E	1.672 44	0.0	0
* 63	Q (0, 1 −; 11) GR	←(0, 1 +; 11) GR	A	1.746 37	0.7	0
* 64	P (0, −3 ; 14) GR	←(0, −2 ; 15) GR	E	1.841 78	−0.1	0
* 65	R (1, 2 −; 13) GR	←(1, 1 −; 12) GR	A	1.876 93	0.0	0
* 66	P (0, −4 ; 9) GR	←(0, −3 ; 10) GR	E	1.908 84	0.0	0
* 67	P (0, 4 ; 19) GR	←(0, 3 ; 20) GR	E	1.998 31	0.1	0
* 68	P (0, 3 ; 9) GR	←(0, 2 ; 10) GR	E	2.017 56	0.0	0
69	Q (0, 1 −; 12) GR	←(0, 1 +; 12) GR	A	2.062 78	−0.8	0
* 70	R (1, 2 +; 13) GR	←(1, 1 +; 12) GR	A	2.107 60	0.0	0
* 71	P (0, 1 +; 4) GR	←(0, 0 +; 5) GR	A	2.114 97	0.1	0
* 72	P (0, 3 +; 3) GR	←(0, 2 +; 4) GR	A	2.213 87	0.0	0
* 73	P (0, 3 −; 3) GR	←(0, 2 −; 4) GR	A	2.214 89	0.0	0
* 74	P (0, 1 ; 1) GR	←(0, 0 ; 2) GR	E	2.373 48	0.0	0
* 75	Q (0, 1 −; 13) GR	←(0, 1 +; 13) GR	A	2.405 00	−0.1	0

Index	upper state T (n, K ; J) v	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 76	P (0, 4 ; 11) GR	←(0, 3 −; 12) GR	A	2.473 20	−0.1	0
* 77	P (0, 4 ; 11) GR	←(0, 3 +; 12) GR	A	2.475 84	0.0	0
* 78	P (0, 2 +; 8) GR	←(0, 1 +; 9) GR	A	2.603 81	0.0	0
* 79	R (0, −1 ; 5) GR	←(0, 0 ; 4) GR	E	2.654 56	0.0	0
* 80	P (0, 5 ; 15) GR	←(0, 4 ; 16) GR	E	2.832 94	−0.1	0
* 81	P (0, −6 ; 26) GR	←(0, −5 ; 27) GR	E	2.841 00	0.0	0
* 82	R (1, 1 ; 6) GR	←(1, 0 ; 5) GR	E	3.116 87	0.3	0
* 83	R (0, 1 +; 2) GR	←(0, 1 +; 1) GR	A	3.122 80	−0.1	0
* 84	R (2, 1 ; 2) GR	←(2, 1 ; 1) GR	E	3.135 98	−0.1	0
* 85	R (2, 0 ; 2) GR	←(2, 0 ; 1) GR	E	3.136 63	−0.1	0
* 86	R (2, 0 +; 2) GR	←(2, 0 +; 1) GR	A	3.137 47	0.0	0
* 87	R (2, −1 ; 2) GR	←(2, −1 ; 1) GR	E	3.137 74	0.0	0
* 88	R (1, 1 +; 2) GR	←(1, 1 +; 1) GR	A	3.137 93	−0.1	0
* 89	R (1, 1 ; 2) GR	←(1, 1 ; 1) GR	E	3.140 98	0.0	0
* 90	R (1, 0 ; 2) GR	←(1, 0 ; 1) GR	E	3.141 03	0.1	0
* 91	R (1, −1 ; 2) GR	←(1, −1 ; 1) GR	E	3.141 33	0.1	0
* 92	R (1, 0 +; 2) GR	←(1, 0 +; 1) GR	A	3.141 73	0.0	0
* 93	R (1, 1 −; 2) GR	←(1, 1 −; 1) GR	A	3.144 06	0.1	0
* 94	R (0, −1 ; 2) GR	←(0, −1 ; 1) GR	E	3.149 02	0.1	0
* 95	R (0, 0 +; 2) GR	←(0, 0 +; 1) GR	A	3.149 01	−0.3	0
* 96	R (0, 0 ; 2) GR	←(0, 0 ; 1) GR	E	3.149 20	−0.1	0
* 97	R (0, 1 ; 2) GR	←(0, 1 ; 1) GR	E	3.149 52	−0.1	0
* 98	P (0, 6 ; 16) GR	←(0, 5 ; 17) GR	E	3.169 20	0.2	0
* 99	R (0, 1 −; 2) GR	←(0, 1 −; 1) GR	A	3.175 82	−0.1	0
* 10	P (0, −2 ; 6) GR	←(0, −1 ; 7) GR	E	3.177 98	0.0	0
* 101	R (0, 1 +; 3) GR	←(0, 1 +; 2) GR	A	4.684 03	0.0	0
* 102	R (2, 1 ; 3) GR	←(2, 1 ; 2) GR	E	4.703 88	0.1	0
* 103	R (2, 0 ; 3) GR	←(2, 0 ; 2) GR	E	4.704 86	−0.1	0
* 104	R (2, 0 +; 3) GR	←(2, 0 +; 2) GR	A	4.706 11	0.0	0
* 105	R (2, −1 ; 3) GR	←(2, −1 ; 2) GR	E	4.706 62	0.3	0
* 106	R (1, 1 +; 3) GR	←(1, 1 +; 2) GR	A	4.706 76	0.0	0
* 107	R (1, 2 ; 3) GR	←(1, 2 ; 2) GR	A	4.711 17	−0.2	0
* 108	R (1, 2 ; 3) GR	←(1, 2 ; 2) GR	E	4.711 28	−0.3	0
* 109	R (1, 1 ; 3) GR	←(1, 1 ; 2) GR	E	4.711 35	0.1	0
* 110	R (1, 0 ; 3) GR	←(1, 0 ; 2) GR	E	4.711 43	−0.2	0
* 111	R (1, −1 ; 3) GR	←(1, −1 ; 2) GR	E	4.711 93	0.2	0
* 112	R (1, 0 +; 3) GR	←(1, 0 +; 2) GR	A	4.712 52	0.0	0
* 113	R (1, 1 −; 3) GR	←(1, 1 −; 2) GR	A	4.715 96	0.0	0
* 114	R (0, 0 ; 3) GR	←(0, 0 ; 2) GR	E	4.723 12	0.0	0
* 115	R (0, −1 ; 3) GR	←(0, −1 ; 2) GR	E	4.723 17	0.0	0
* 116	R (0, 0 +; 3) GR	←(0, 0 +; 2) GR	A	4.723 35	−0.1	0
* 117	R (0, 2 −; 3) GR	←(0, 2 −; 2) GR	A	4.724 03	0.0	0
* 118	R (0, −2 ; 3) GR	←(0, −2 ; 2) GR	E	4.724 05	0.0	0
* 119	R (0, 2 ; 3) GR	←(0, 2 ; 2) GR	E	4.724 05	−0.1	0
* 120	R (0, 1 ; 3) GR	←(0, 1 ; 2) GR	E	4.724 26	0.1	0
* 121	R (0, 2 +; 3) GR	←(0, 2 +; 2) GR	A	4.724 30	0.0	0
* 122	P (0, −2 ; 5) GR	←(0, −1 ; 6) GR	E	4.742 41	0.0	0
* 123	R (0, 1 −; 3) GR	←(0, 1 −; 2) GR	A	4.763 55	0.0	0
* 124	P (0, 2 −; 6) GR	←(0, 1 −; 7) GR	A	4.766 52	0.0	0
* 125	P (0, 1 +; 2) GR	←(0, 0 +; 3) GR	A	5.353 96	−0.1	0
* 126	P (0, 2 +; 6) GR	←(0, 1 +; 7) GR	A	5.513 17	0.0	0
* 127	Q (0, 1 ; 1) GR	←(0, 0 ; 1) GR	E	5.522 69	0.0	0
* 128	Q (0, 1 ; 2) GR	←(0, 0 ; 2) GR	E	5.523 01	0.0	0
* 129	Q (0, 1 ; 3) GR	←(0, 0 ; 3) GR	E	5.524 14	0.0	0
* 130	Q (0, 1 ; 4) GR	←(0, 0 ; 4) GR	E	5.526 86	0.1	0
* 131	Q (0, 1 ; 5) GR	←(0, 0 ; 5) GR	E	5.532 20	0.0	0
* 132	Q (0, 1 ; 6) GR	←(0, 0 ; 6) GR	E	5.541 46	0.0	0
* 133	Q (0, 1 ; 7) GR	←(0, 0 ; 7) GR	E	5.556 16	0.0	0
* 134	Q (0, 1 ; 8) GR	←(0, 0 ; 8) GR	E	5.578 05	0.0	0
* 135	Q (0, 1 ; 9) GR	←(0, 0 ; 9) GR	E	5.609 06	0.0	0
* 136	R (0, 2 ; 3) GR	←(0, 1 ; 2) GR	E	5.626 44	−0.2	0
* 137	R (0, −1 ; 7) GR	←(0, 0 ; 6) GR	E	5.804 26	0.0	0
* 138	R (0, 1 +; 4) GR	←(0, 1 +; 3) GR	A	6.245 05	0.0	0
* 139	R (2, 1 ; 4) GR	←(2, 1 ; 3) GR	E	6.271 67	0.2	0
* 140	R (2, 0 ; 4) GR	←(2, 0 ; 3) GR	E	6.272 98	−0.1	0
* 141	R (2, 0 +; 4) GR	←(2, 0 +; 3) GR	A	6.274 66	0.0	0
* 142	R (2, −1 ; 4) GR	←(2, −1 ; 3) GR	E	6.275 20	0.2	0
* 143	R (1, 1 +; 4) GR	←(1, 1 +; 3) GR	A	6.275 43	0.1	0
* 144	R (1, 2 ; 4) GR	←(1, 2 ; 3) GR	A	6.281 30	−0.1	0
* 145	R (1, 1 ; 4) GR	←(1, 1 ; 3) GR	E	6.281 58	0.0	0
* 146	R (1, 0 ; 4) GR	←(1, 0 ; 3) GR	E	6.281 66	0.0	0
* 147	R (, 2 ; 4) GR	←(1, 2 ; 3) GR	E	6.281 66	0.0	0
* 148	R (1, −1 ; 4) GR	←(1, −1 ; 3) GR	E	6.282 43	−0.1	0
* 149	R (1, 0 +; 4) GR	←(1, 0 +; 3) GR	A	6.283 22	0.0	0
* 150	R (0, 0 ; 4) GR	←(0, 0 ; 3) GR	E	6.296 19	0.0	0



Index	upper state T (n, K ; J) v	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 151	R (0, −1 ; 4) GR	← (0, −1 ; 3) GR	E	6.296 90	0.0	0
* 152	R (0, 0 +; 4) GR	← (0, 0 +; 3) GR	A	6.297 29	0.0	0
* 153	R (0, 3 ; 4) GR	← (0, 3 ; 3) GR	A	6.297 78	0.1	0
* 154	R (0, 3 ; 4) GR	← (0, 3 ; 3) GR	E	6.297 85	−0.1	0
* 155	R (0, 2 −; 4) GR	← (0, 2 −; 3) GR	A	6.298 36	0.0	0
* 156	R (0, −3 ; 4) GR	← (0, −3 ; 3) GR	E	6.298 36	−0.1	0
* 157	R (0, 1 ; 4) GR	← (0, 1 ; 3) GR	E	6.298 91	0.1	0
* 158	R (0, −2 ; 4) GR	← (0, −2 ; 3) GR	E	6.299 01	0.1	0
* 159	R (0, 2 ; 4) GR	← (0, 2 ; 3) GR	E	6.299 01	0.1	0
* 160	P (0, −2 ; 4) GR	← (0, −1 ; 5) GR	E	6.310 72	0.1	0
* 161	R (0, 1 −; 4) GR	← (0, 1 −; 3) GR	A	6.351 06	0.0	0
* 162	P (0, 2 −; 5) GR	← (0, 1 −; 6) GR	A	6.431 98	0.1	0
* 163	P (0, 1 +; 1) GR	← (0, 0 +; 2) GR	A	6.954 51	−0.1	0
* 164	P (0, 2 +; 5) GR	← (0, 1 +; 6) GR	A	6.990 85	0.0	0
* 165	R (0, 1 ; 1) GR	← (0, 0 ; 0) GR	E	7.097 43	0.0	0
* 166	P (0, 4 ; 8) GR	← (0, 3 −; 9) GR	A	7.195 24	−0.1	0
* 167	P (0, 4 ; 8) GR	← (0, 3 ; 9) GR	A	7.195 48	−0.7	0
* 168	P (0, 4 ; 8) GR	← (0, 3 +; 9) GR	A	7.195 73	0.1	0
* 169	R (0, 2 ; 4) GR	← (0, 1 ; 3) GR	E	7.201 21	0.0	0
* 170	R (0, −1 ; 8) GR	← (0, 0 ; 7) GR	E	7.381 28	0.0	0
* 171	R (0, 1 +; 5) GR	← (0, 1 +; 4) GR	A	7.805 79	0.1	0
* 172	R (1, 2 +; 5) GR	← (1, 2 +; 4) GR	A	7.851 26	0.0	0
* 173	R (1, 2 −; 5) GR	← (1, 2 −; 4) GR	A	7.851 36	0.0	0
* 174	R (1, 1 ; 5) GR	← (1, 1 ; 4) GR	E	7.851 61	0.0	0
* 175	R (1, 0 ; 5) GR	← (1, 0 ; 4) GR	E	7.851 70	0.1	0
* 176	R (1, 2 ; 5) GR	← (1, 2 ; 4) GR	E	7.851 89	−0.1	0
* 177	R (0, 0 ; 5) GR	← (0, 0 ; 4) GR	E	7.868 15	0.0	0
* 178	R (0, −1 ; 5) GR	← (0, −1 ; 4) GR	E	7.870 05	0.0	0
* 179	R (0, 0 +; 5) GR	← (0, 0 +; 4) GR	A	7.870 79	−0.1	0
* 180	R (0, 4 ; 5) GR	← (0, 4 ; 4) GR	A	7.871 15	0.1	0
* 181	R (0, −4 ; 5) GR	← (0, −4 ; 4) GR	E	7.871 40	0.1	0
* 182	R (0, 4 ; 5) GR	← (0, 4 ; 4) GR	E	7.871 93	0.0	0
* 183	R (0, 3 ; 5) GR	← (0, 3 ; 4) GR	A	7.872 02	0.0	0
* 184	R (0, 3 ; 5) GR	← (0, 3 ; 4) GR	E	7.872 32	−0.1	0
* 185	R (0, 2 −; 5) GR	← (0, 2 −; 4) GR	A	7.872 39	0.0	0
* 186	R (0, −3 ; 5) GR	← (0, −3 ; 4) GR	E	7.872 66	0.1	0
* 187	R (0, 1 ; 5) GR	← (0, 1 ; 4) GR	E	7.873 49	0.0	0
* 188	R (0, 2 +; 5) GR	← (0, 2 +; 4) GR	A	7.873 76	0.0	0
* 189	R (0, −2 ; 5) GR	← (0, −2 ; 4) GR	E	7.874 18	−0.1	0
* 190	R (0, 2 ; 5) GR	← (0, 2 ; 4) GR	E	7.874 21	0.0	0
* 191	P (0, −2 ; 3) GR	← (0, −1 ; 4) GR	E	7.881 77	0.1	0
* 192	R (0, 1 −; 5) GR	← (0, 1 −; 4) GR	A	7.938 27	0.1	0
193	P (0, 2 −; 4) GR	← (0, 1 −; 5) GR	A	8.084 70	−0.1	0
* 194	P (0, 2 +; 4) GR	← (0, 1 +; 5) GR	A	8.483 26	0.0	0
* 195	Q (0, 3 −; 9) GR	← (0, 2 +; 9) GR	A	8.495 66	−0.1	0
* 196	Q (0, 3 −; 8) GR	← (0, 2 +; 8) GR	A	8.500 61	0.0	0
* 197	Q (0, 3 −; 7) GR	← (0, 2 +; 7) GR	A	8.504 53	0.0	0
* 198	Q (0, 3 −; 6) GR	← (0, 2 +; 6) GR	A	8.507 58	0.0	0
* 199	Q (0, 3 −; 5) GR	← (0, 2 +; 5) GR	A	8.509 92	−0.1	0
* 200	Q (0, 3 −; 4) GR	← (0, 2 +; 4) GR	A	8.511 66	0.0	0
* 201	Q (0, 3 +; 5) GR	← (0, 2 −; 5) GR	A	8.512 33	0.2	0
* 202	Q (0, 3 +; 6) GR	← (0, 2 −; 6) GR	A	8.512 33	−0.1	0
* 203	Q (0, 3 +; 4) GR	← (0, 2 −; 4) GR	A	8.512 68	0.0	0
* 204	Q (0, 3 −; 3) GR	← (0, 2 +; 3) GR	A	8.512 91	0.0	0
* 205	Q (0, 3 +; 7) GR	← (0, 2 −; 7) GR	A	8.513 05	0.0	0
* 206	Q (0, 3 +; 3) GR	← (0, 2 −; 3) GR	A	8.513 25	0.0	0
* 207	Q (0, 3 +; 8) GR	← (0, 2 −; 8) GR	A	8.514 75	0.0	0
* 208	R (0, 1 ; 2) GR	← (0, 0 ; 1) GR	E	8.672 22	0.0	0
* 209	P (0, 4 ; 7) GR	← (0, 3 −; 8) GR	A	8.769 84	0.0	0
* 210	P (0, 4 ; 7) GR	← (0, 3 ; 8) GR	A	8.769 96	0.1	0
* 211	P (0, 4 ; 7) GR	← (0, 3 +; 8) GR	A	8.770 08	0.0	0
* 212	R (0, 2 ; 5) GR	← (0, 1 ; 4) GR	E	8.776 52	0.0	0
* 213	R (0, −1 ; 9) GR	← (0, 0 ; 8) GR	E	8.960 71	−0.1	0
* 214	R (0, 1 +; 6) GR	← (0, 1 +; 5) GR	A	9.366 17	0.0	0
* 215	R (0, 0 ; 6) GR	← (0, 0 ; 5) GR	E	9.438 73	0.0	0
* 216	R (0, −1 ; 6) GR	← (0, −1 ; 5) GR	E	9.442 49	−0.1	0
* 217	R (0, 0 +; 6) GR	← (0, 0 +; 5) GR	A	9.443 75	0.2	0
* 218	R (0, −5 ; 6) GR	← (0, −5 ; 5) GR	E	9.443 75	0.0	0
* 219	R (0, 5 ; 6) GR	← (0, 5 ; 5) GR	E	9.444 49	0.0	0
* 220	R (0, 5 ; 6) GR	← (0, 5 ; 5) GR	A	9.444 68	−0.1	0
* 221	R (0, 4 ; 6) GR	← (0, 4 ; 5) GR	A	9.445 15	0.0	0
* 222	R (0, −4 ; 6) GR	← (0, −4 ; 5) GR	E	9.445 25	0.0	0
* 223	R (0, 4 ; 6) GR	← (0, 4 ; 5) GR	E	9.445 91	−0.1	0
* 224	R (0, 2 −; 6) GR	← (0, 2 −; 5) GR	A	9.446 06	0.0	0
* 225	R (0, 3 ; 6) GR	← (0, 3 ; 5) GR	A	9.446 11	0.0	0

Index	upper state T (n, K ; J) v	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 226	R (0, −3 ; 6) GR	← (0, −3 ; 5) GR	E	9.446 78	0.0	0
* 227	R (0, 3 ; 6) GR	← (0, 3 ; 5) GR	E	9.446 78	0.0	0
* 228	R (0, 1 ; 6) GR	← (0, 1 ; 5) GR	E	9.447 99	0.0	0
* 229	R (0, 2 +; 6) GR	← (0, 2 +; 5) GR	A	9.448 46	0.0	0
* 230	R (0, −2 ; 6) GR	← (0, −2 ; 5) GR	E	9.449 67	0.1	0
* 231	R (0, 2 ; 6) GR	← (0, 2 ; 5) GR	E	9.449 67	−0.1	0
* 232	P (0, −2 ; 2) GR	← (0, −1 ; 3) GR	E	9.454 62	0.0	0
* 233	R (0, 1 −; 6) GR	← (0, 1 −; 5) GR	A	9.525 11	−0.1	0
* 234	P (0, 2 −; 3) GR	← (0, 1 −; 4) GR	A	9.724 61	0.0	0
* 235	P (0, 2 +; 3) GR	← (0, 1 +; 4) GR	A	9.990 00	−0.1	0
* 236	Q (0, 1 −; 2) GR	← (0, 0 +; 2) GR	A	10.156 83	−0.1	0
* 237	Q (0, 1 −; 3) GR	← (0, 0 +; 3) GR	A	10.197 04	0.0	0
* 238	R (0, 1 ; 3) GR	← (0, 0 ; 2) GR	E	10.247 25	−0.1	0
* 239	Q (0, 1 −; 4) GR	← (0, 0 +; 4) GR	A	10.250 81	0.0	0
* 240	Q (0, 1 −; 5) GR	← (0, 0 +; 5) GR	A	10.318 24	−0.4	0
* 241	P (0, 4 ; 6) GR	← (0, 3 −; 7) GR	A	10.344 62	0.0	0
* 242	P (0, 4 ; 6) GR	← (0, 3 ; 7) GR	A	10.344 67	0.0	0
* 243	P (0, 4 ; 6) GR	← (0, 3 +; 7) GR	A	10.344 73	0.1	0
* 244	R (0, 2 ; 6) GR	← (0, 1 ; 5) GR	E	10.352 71	0.0	0
* 245	Q (0, 1 −; 6) GR	← (0, 0 +; 6) GR	A	10.399 66	0.0	0
* 246	Q (0, 1 −; 7) GR	← (0, 0 +; 7) GR	A	10.495 12	−0.1	0
* 247	Q (0, 1 −; 8) GR	← (0, 0 +; 8) GR	A	10.604 93	0.0	0
* 248	Q (0, 1 −; 9) GR	← (0, 0 +; 9) GR	A	10.729 32	0.1	0
* 249	R (0, 1 +; 7) GR	← (0, 1 +; 6) GR	A	10.926 15	0.0	0
* 250	R (0, 0 ; 7) GR	← (0, 0 ; 6) GR	E	11.007 67	0.0	0
* 251	R (0, −1 ; 7) GR	← (0, −1 ; 6) GR	E	11.014 09	0.0	0
* 252	R (0, 6 ; 7) GR	← (0, 6 ; 6) GR	E	11.015 61	0.0	0
* 253	R (0, 0 +; 7) GR	← (0, 0 +; 6) GR	A	11.016 05	0.0	0
* 254	R (0, −6 ; 7) GR	← (0, −6 ; 6) GR	E	11.016 46	0.1	0
* 255	R (0, −5 ; 7) GR	← (0, −5 ; 6) GR	E	11.017 27	−0.1	0
* 256	R (0, 5 ; 7) GR	← (0, 5 ; 6) GR	E	11.017 93	0.1	0
* 257	R (0, 5 ; 7) GR	← (0, 5 ; 6) GR	A	11.018 26	0.2	0
* 258	R (0, −4 ; 7) GR	← (0, −4 ; 6) GR	E	11.018 85	0.0	0
* 259	R (0, 4 ; 7) GR	← (0, 4 ; 6) GR	A	11.019 04	−0.2	0
* 260	R (0, 2 −; 7) GR	← (0, 2 −; 6) GR	A	11.019 29	0.0	0
* 261	R (0, 4 ; 7) GR	← (0, 4 ; 6) GR	E	11.019 69	−0.1	0
* 262	R (0, 3 +; 7) GR	← (0, 3 +; 6) GR	A	11.020 00	−0.1	0
* 263	R (0, 3 −; 7) GR	← (0, 3 −; 6) GR	A	11.020 07	0.0	0
* 264	R (0, −3 ; 7) GR	← (0, −3 ; 6) GR	E	11.020 67	0.0	0
* 265	R (0, 3 ; 7) GR	← (0, 3 ; 6) GR	E	11.021 24	−0.1	0
* 266	R (0, 1 ; 7) GR	← (0, 1 ; 6) GR	E	11.022 37	0.0	0
* 267	R (0, 2 ; 7) GR	← (0, 2 ; 6) GR	E	11.025 48	0.0	0
* 268	R (0, −2 ; 7) GR	← (0, −2 ; 6) GR	E	11.025 48	−0.1	0
* 269	R (0, 1 −; 7) GR	← (0, 1 −; 6) GR	A	11.111 51	0.0	0
* 270	P (0, 2 −; 2) GR	← (0, 1 −; 3) GR	A	11.351 65	0.0	0
* 271	P (0, −3 ; 8) GR	← (0, −2 ; 9) GR	E	11.475 95	−0.1	0
* 272	P (0, 2 +; 2) GR	← (0, 1 +; 3) GR	A	11.510 76	0.1	0
* 273	R (0, 1 +; 1) GR	← (0, 0 +; 0) GR	A	11.678 18	0.1	0
* 274	R (0, 1 ; 4) GR	← (0, 0 ; 3) GR	E	11.823 04	−0.1	0
* 275	P (0, 4 ; 5) GR	← (0, 3 ; 6) GR	A	11.919 55	0.3	0
* 276	P (0, 4 ; 5) GR	← (0, 3 −; 6) GR	A	11.919 53	0.0	0
* 277	P (0, 4 ; 5) GR	← (0, 3 +; 6) GR	A	11.919 58	0.0	0
* 278	R (0, 2 ; 7) GR	← (0, 1 ; 6) GR	E	11.930 19	0.0	0
* 279	R (0, 1 +; 8) GR	← (0, 1 +; 7) GR	A	12.485 64	0.0	0
* 280	R (0, 0 ; 8) GR	← (0, 0 ; 7) GR	E	12.574 73	0.0	0
* 281	R (0, −1 ; 8) GR	← (0, −1 ; 7) GR	E	12.584 69	0.0	0
* 282	R (0, 7 ; 8) GR	← (0, 7 ; 7) GR	E	12.587 17	0.1	0
* 283	R (0, 0 +; 8) GR	← (0, 0 +; 7) GR	A	12.587 58	0.0	0
* 284	R (0, −7 ; 8) GR	← (0, −7 ; 7) GR	E	12.588 28	0.0	0
* 285	R (0, 6 ; 8) GR	← (0, 6 ; 7) GR	E	12.588 53	−0.1	0
* 286	R (0, −6 ; 8) GR	← (0, −6 ; 7) GR	E	12.589 55	−0.1	0
* 287	R (0, −5 ; 8) GR	← (0, −5 ; 7) GR	E	12.590 55	0.0	0
* 288	R (0, 5 ; 8) GR	← (0, 5 ; 7) GR	E	12.591 07	0.0	0
* 289	R (0, 5 ; 8) GR	← (0, 5 ; 7) GR	A	12.591 60	0.0	0
* 290	R (0, 2 −; 8) GR	← (0, 2 −; 7) GR	A	12.592 00	0.0	0
* 291	R (0, −4 ; 8) GR	← (0, −4 ; 7) GR	E	12.592 18	0.0	0
* 292	R (0, 4 ; 8) GR	← (0, 4 ; 7) GR	A	12.592 78	0.0	0
* 293	R (0, 4 ; 8) GR	← (0, 4 ; 7) GR	E	12.593 22	0.0	0
* 294	R (0, 3 +; 8) GR	← (0, 3 +; 7) GR	A	12.593 69	−0.1	0
* 295	R (0, 3 −; 8) GR	← (0, 3 −; 7) GR	A	12.593 83	0.0	0
* 296	R (0, −3 ; 8) GR	← (0, −3 ; 7) GR	E	12.594 28	0.0	0
* 297	R (0, 3 ; 8) GR	← (0, 3 ; 7) GR	E	12.595 69	0.0	0
* 298	R (0, 1 ; 8) GR	← (0, 1 ; 7) GR	E	12.596 62	0.0	0
* 299	R (0, 2 +; 8) GR	← (0, 2 +; 7) GR	A	12.597 75	0.0	0
* 300	R (0, 2 ; 8) GR	← (0, 2 ; 7) GR	E	12.601 57	0.0	0



Index	upper state T (n, K ; J) v		lower state (n, K ; J) v		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 301	R (0, −2 ; 8)	GR	← (0, −2 ; 7)	GR	E	12.601 75	0.0	0
* 302	R (0, 1 $^-$; 8)	GR	← (0, 1 $^-$; 7)	GR	A	12.697 38	0.0	0
* 303	P (0, −3 ; 7)	GR	← (0, −2 ; 8)	GR	E	13.060 19	0.0	0
* 304	R (0, 1 $^+$; 2)	GR	← (0, 0 $^+$; 1)	GR	A	13.226 40	0.3	0
* 305	R (0, 3 $^+$; 3)	GR	← (0, 2 $^+$; 2)	GR	A	13.237 21	0.0	0
* 306	R (0, 3 $^-$; 3)	GR	← (0, 2 $^-$; 2)	GR	A	13.237 28	0.0	0
* 307	R (0, 1 ; 5)	GR	← (0, 0 ; 4)	GR	E	13.400 35	0.0	0
* 308	P (0, 4 ; 4)	GR	← (0, 3 ; 5)	GR	A	13.494 52	0.2	0
* 309	R (0, 2 ; 8)	GR	← (0, 1 ; 7)	GR	E	13.509 39	0.0	0
* 310	R (0, 1 $^+$; 9)	GR	← (0, 1 $^+$; 8)	GR	A	14.044 57	−0.1	0
* 311	R (0, 0 ; 9)	GR	← (0, 0 ; 8)	GR	E	14.139 69	−0.1	0
* 312	R (0, −1 ; 9)	GR	← (0, −1 ; 8)	GR	E	14.154 16	−0.1	0
* 313	R (0, 7 ; 9)	GR	← (0, 7 ; 8)	GR	E	14.159 67	0.1	0
* 314	R (0, −7 ; 9)	GR	← (0, −7 ; 8)	GR	E	14.160 74	−0.1	0
* 315	R (0, 6 ; 9)	GR	← (0, 6 ; 8)	GR	E	14.161 15	−0.1	0
* 316	R (0, −6 ; 9)	GR	← (0, −6 ; 8)	GR	E	14.162 34	−0.1	0
* 317	R (0, −5 ; 9)	GR	← (0, −5 ; 8)	GR	E	14.163 58	0.0	0
* 318	R (0, 5 ; 9)	GR	← (0, 5 ; 8)	GR	E	14.163 87	0.1	0
* 319	R (0, 2 $^-$; 9)	GR	← (0, 2 $^-$; 8)	GR	A	14.164 12	0.0	0
* 320	R (0, 5 ; 9)	GR	← (0, 5 ; 8)	GR	A	14.164 67	0.1	0
* 321	R (0, −4 ; 9)	GR	← (0, −4 ; 8)	GR	E	14.165 20	0.0	0
* 322	R (0, 4 ; 9)	GR	← (0, 4 ; 8)	GR	A	14.166 35	−0.1	0
* 323	R (0, 4 ; 9)	GR	← (0, 4 ; 8)	GR	E	14.166 46	0.1	0
* 324	R (0, 3 $^+$; 9)	GR	← (0, 3 $^+$; 8)	GR	A	14.167 13	−0.1	0
* 325	R (0, 3 $^-$; 9)	GR	← (0, 3 $^-$; 8)	GR	A	14.167 37	−0.1	0
* 326	R (0, −3 ; 9)	GR	← (0, −3 ; 8)	GR	E	14.167 60	−0.1	0
* 327	R (0, 3 ; 9)	GR	← (0, 3 ; 8)	GR	E	14.170 14	0.0	0
* 328	R (0, 1 ; 9)	GR	← (0, 1 ; 8)	GR	E	14.170 71	0.0	0
* 329	R (0, 2 $^+$; 9)	GR	← (0, 2 $^+$; 8)	GR	A	14.172 32	0.0	0
* 330	Q (0, −2 ; 2)	GR	← (0, −1 ; 2)	GR	E	14.177 80	0.1	0
* 331	R (0, 2 ; 9)	GR	← (0, 2 ; 8)	GR	E	14.177 97	0.0	0
* 332	R (0, −2 ; 9)	GR	← (0, −2 ; 8)	GR	E	14.178 52	0.0	0
* 333	Q (0, −2 ; 3)	GR	← (0, −1 ; 3)	GR	E	14.178 67	0.1	0
* 334	Q (0, −2 ; 4)	GR	← (0, −1 ; 4)	GR	E	14.180 77	0.0	0
* 335	Q (0, −2 ; 5)	GR	← (0, −1 ; 5)	GR	E	14.184 90	0.0	0
* 336	Q (0, −2 ; 6)	GR	← (0, −1 ; 6)	GR	E	14.192 06	−0.1	0
* 337	Q (0, −2 ; 7)	GR	← (0, −1 ; 7)	GR	E	14.203 47	0.0	0
* 338	Q (0, −2 ; 8)	GR	← (0, −1 ; 8)	GR	E	14.220 53	0.0	0
* 339	Q (0, −2 ; 9)	GR	← (0, −1 ; 9)	GR	E	14.244 88	0.0	0
* 340	P (0, −3 ; 6)	GR	← (0, −2 ; 7)	GR	E	14.641 28	0.1	0
* 341	R (0, 1 $^+$; 3)	GR	← (0, 0 $^+$; 2)	GR	A	14.761 35	−0.1	0
* 342	R (0, 3 $^+$; 4)	GR	← (0, 2 $^+$; 3)	GR	A	14.810 70	0.1	0
* 343	R (0, 3 $^-$; 4)	GR	← (0, 2 $^-$; 3)	GR	A	14.811 04	0.0	0
* 344	R (0, 1 ; 6)	GR	← (0, 0 ; 5)	GR	E	14.980 19	0.0	0
* 345	R (0, 2 ; 9)	GR	← (0, 1 ; 8)	GR	E	15.090 74	0.0	0
* 346	Q (0, 2 $^+$; 9)	GR	← (0, 1 $^-$; 9)	GR	A	15.584 48	0.0	0
* 347	Q (0, 2 $^+$; 8)	GR	← (0, 1 $^-$; 8)	GR	A	15.694 80	0.0	0
* 348	Q (0, 2 $^+$; 7)	GR	← (0, 1 $^-$; 7)	GR	A	15.794 44	0.0	0
* 349	Q (0, 2 $^+$; 6)	GR	← (0, 1 $^-$; 6)	GR	A	15.882 84	0.0	0
* 350	Q (0, 2 $^+$; 5)	GR	← (0, 1 $^-$; 5)	GR	A	15.959 49	0.0	0
351	Q (0, 2 $^+$; 4)	GR	← (0, 1 $^-$; 4)	GR	A	16.024 00	0.0	0
* 352	Q (0, 2 $^+$; 3)	GR	← (0, 1 $^-$; 3)	GR	A	16.076 02	0.0	0
* 353	Q (0, 2 $^+$; 2)	GR	← (0, 1 $^-$; 2)	GR	A	16.115 27	0.0	0
* 354	Q (0, 2 $^-$; 2)	GR	← (0, 1 $^+$; 2)	GR	A	16.194 72	0.1	0
* 355	P (0, −3 ; 5)	GR	← (0, −2 ; 6)	GR	E	16.219 99	0.1	0
* 356	Q (0, 2 $^-$; 3)	GR	← (0, 1 $^+$; 3)	GR	A	16.234 71	0.0	0
* 357	R (0, 1 $^+$; 4)	GR	← (0, 0 $^+$; 3)	GR	A	16.283 05	0.0	0
* 358	Q (0, 2 $^-$; 4)	GR	← (0, 1 $^+$; 4)	GR	A	16.288 02	0.0	0
* 359	Q (0, 2 $^-$; 5)	GR	← (0, 1 $^+$; 5)	GR	A	16.354 63	0.1	0
* 360	R (0, 3 $^+$; 5)	GR	← (0, 2 $^+$; 4)	GR	A	16.383 67	−0.1	0
* 361	R (0, 3 $^-$; 5)	GR	← (0, 2 $^-$; 4)	GR	A	16.384 71	0.0	0
* 362	Q (0, 2 $^-$; 6)	GR	← (0, 1 $^+$; 6)	GR	A	16.434 51	0.0	0
* 363	Q (0, 2 $^-$; 7)	GR	← (0, 1 $^+$; 7)	GR	A	16.527 66	0.0	0
* 364	R (0, 1 ; 7)	GR	← (0, 0 ; 6)	GR	E	16.563 83	0.0	0
* 365	Q (0, 2 $^-$; 8)	GR	← (0, 1 $^+$; 8)	GR	A	16.634 01	0.0	0
* 366	Q (0, −4 ; 9)	GR	← (0, −3 ; 9)	GR	E	17.649 41	0.0	0
* 367	Q (0, −4 ; 8)	GR	← (0, −3 ; 8)	GR	E	17.651 81	0.0	0
* 368	Q (0, −4 ; 7)	GR	← (0, −3 ; 7)	GR	E	17.653 91	−0.1	0
* 369	Q (0, 3 ; 9)	GR	← (0, 2 ; 9)	GR	E	17.772 13	0.0	0
* 370	Q (0, 3 ; 8)	GR	← (0, 2 ; 8)	GR	E	17.779 96	0.0	0
* 371	Q (0, 3 ; 7)	GR	← (0, 2 ; 7)	GR	E	17.785 84	0.0	0
* 372	Q (0, 3 ; 6)	GR	← (0, 2 ; 6)	GR	E	17.790 07	0.0	0
* 373	R (0, 1 $^+$; 5)	GR	← (0, 0 $^+$; 4)	GR	A	17.791 54	0.0	0
* 374	Q (0, 3 ; 5)	GR	← (0, 2 ; 5)	GR	E	17.792 98	0.1	0
* 375	Q (0, 3 ; 4)	GR	← (0, 2 ; 4)	GR	E	17.794 87	0.2	0
* 376	Q (0, 3 ; 3)	GR	← (0, 2 ; 3)	GR	E	17.796 03	0.4	0
* 377	P (0, −3 ; 4)	GR	← (0, −2 ; 5)	GR	E	17.796 99	0.0	0
* 378	R (0, 3 $^+$; 6)	GR	← (0, 2 $^+$; 5)	GR	A	17.956 00	0.0	0
* 379	R (0, 3 $^-$; 6)	GR	← (0, 2 $^-$; 5)	GR	A	17.958 45	0.0	0
* 380	R (0, 3 $^+$; 7)	GR	← (0, 2 $^+$; 6)	GR	A	19.527 54	0.0	0
* 381	R (0, 3 $^-$; 7)	GR	← (0, 2 $^-$; 6)	GR	A	19.532 45	0.0	0
* 382	R (0, 3 $^-$; 8)	GR	← (0, 2 $^-$; 7)	GR	A	21.106 98	−0.1	0
383	R (0, 3 ; 3)	GR	← (0, 2 ; 2)	GR	E	22.519 64	−4.2	6102
384	R (0, −4 ; 4)	GR	← (0, −3 ; 3)	GR	E	23.956 57	−3.3	8057
* 385	R (0, 3 ; 4)	GR	← (0, 2 ; 3)	GR	E	24.093 69	−1.6	8337
* 386	P (0, 5 ; 9)	GR	← (0, 4 ; 10)	GR	A	24.422 43	−0.1	5553
* 387	R (1, 9 ; 15)	GR	← (1, 8 ; 14)	GR	A	24.814 44	−1.2	5201
* 388	Q (0, −3 ; 20)	GR	← (0, −2 ; 20)	GR	E	24.904 33	−1.6	6728
* 389	P (0, 8 ; 17)	GR	← (0, 7 ; 18)	GR	A	24.989 33	1.0	3277
* 390	R (0, 0 ; 16)	GR	← (0, 0 ; 15)	GR	E	25.027 41	−1.9	9339
* 391	R (1, 6 ; 16)	GR	← (1, 6 ; 15)	GR	A	25.045 45	−1.9	6922
392	R (1, 1 ; 20)	GR	← (1, 0 ; 19)	GR	E	25.048 06	−6.9	6217
393	Q (0, −3 ; 19)	GR	← (0, −2 ; 19)	GR	E	25.051 07	−6.0	7447
* 394	R (0, −1 ; 19)	GR	← (0, 0 ; 18)	GR	E	25.061 49	−0.5	8575
* 395	R (1, 1 $^+$; 16)	GR	← (1, 1 $^+$; 15)	GR	A	25.068 20	2.9	7309
* 396	R (2, 3 ; 16)	GR	← (2, 3 ; 15)	GR	A	25.074 36	2.5	7154
397	R (2, 4 ; 16)	GR	← (2, 4 ; 15)	GR	A	25.074 36	−6.5	7154
* 398	R (1, −2 ; 16)	GR	← (1, −2 ; 15)	GR	E	25.084 41	−1.2	5570
* 399	R (1, −6 ; 16)	GR	← (1, −6 ; 15)	GR	E	25.086 21	1.5	6378
* 400	R (1, 5 ; 16)	GR	← (1, 5 ; 15)	GR	A	25.091 34	3.1	8875
* 401	R (1, 7 ; 16)	GR	← (1, 7 ; 15)	GR	A	25.091 34	2.7	8875
402	R (1, 4 ; 16)	GR	← (1, 4 ; 15)	GR	E	25.091 34	−3.9	8875
* 403	R (1, 2 $^+$; 16)	GR	← (1, 2 $^+$; 15)	GR	A	25.093 49	2.7	8765
404	R (1, −3 ; 16)	GR	← (1, −3 ; 15)	GR	E	25.093 49	−4.7	8765
405	R (1, 1 ; 16)	GR	← (1, 1 ; 15)	GR	E	25.095 01	−4.0	7990
* 406	P (0, −11 ; 29)	GR	← (0, −10 ; 30)	GR	E	25.096 70	1.5	5837
* 407	R (1, 2 $^-$; 16)	GR	← (1, 2 $^-$; 15)	GR	A	25.096 70	−2.1	5837
* 408	R (0, −1 ; 16)	GR	← (0, −1 ; 15)	GR	E	25.098 69	−0.2	9526
* 409	R (1, 3 ; 16)	GR	← (1, 3 ; 15)	GR	A	25.108 29	−0.4	7772
410	R (1, 2 ; 16)	GR	← (1, 2 ; 15)	GR	E	25.108 29	−4.4	7772
* 411	R (1, −1 ; 16)	GR	← (1, −1 ; 15)	GR	E	25.110 08	−2.9	7296
* 412	R (1, 0 $^+$; 16)	GR	← (1, 0 $^+$; 15)	GR	A	25.113 31	0.0	6734
* 413	R (1, 1 $^-$; 16)	GR	← (1, 1 $^-$; 15)	GR	A	25.115 53	−2.0	7043
* 414	R (0, 0 $^+$; 16)	GR	← (0, 0 $^+$; 15)	GR	A	25.119 61	−2.7	9362
* 415	R (0, 12 ; 16)	GR	← (0, 12 ; 15)	GR	A	25.125 70	−1.9	4450
* 416	R (0, 10 ; 16)	GR	← (0, 10 ; 15)	GR	A	25.137 65	−1.0	5772
* 417	R (0, 1 $^+$; 10)	GR	← (0, 0 $^+$; 9)	GR	A	25.140 40	−1.9	9308
418	R (0, −10 ; 16)	GR	← (0, −10 ; 15)	GR	E	25.140 40	−3.9	9308
419	R (0, −9 ; 16)	GR	← (0, −9 ; 15)	GR	E	25.143 16	−4.7	4674
* 420	R (1, 5 ; 16)	GR	← (1, 5 ; 15)	GR	E	25.146 26	1.3	9710
* 421	R (0, 2 $^-$; 16)	GR	← (0, 2 $^-$; 15)	GR	A	25.146 26	−0.8	9710
* 422	R (0, 9 ; 16)	GR	← (0, 9 ; 15)	GR	A	25.146 26	−2.4	9710
423	R (0, −8 ; 16)	GR	← (0, −8 ; 15)	GR	E	25.146 26	−8.3	9710
* 424	R (0, 8 ; 16)	GR	← (0, 8 ; 15)	GR	A	25.150 24	−1.5	7534
* 425	R (0, 7 ; 16)	GR	← (0, 7 ; 15)	GR	A	25.152 17	0.2	9237
* 426	R (0, −7 ; 16)	GR	← (0, −7 ; 15)	GR	E	25.154 83	−2.4	6837
* 427	R (0, 6 ; 16)	GR	← (0, 6 ; 15)	GR	A	25.157 93	0.9	9184
* 428	R (0, 6 ; 16)	GR	← (0, 6 ; 15)	GR	E	25.157 93	−1.5	9184
* 429	R (0, 5 ; 16)	GR	← (0, 5 ; 15)	GR	E	25.160 39	−0.9	8610
* 430	R (0, −6 ; 16)	GR	← (0, −6 ; 15)	GR	E	25.161 57	0.7	4311
* 431	R (0, −5 ; 16)	GR	← (0, −5 ; 15)	GR	E	25.165 16	−1.5	8827
* 432	R (0, 5 ; 16)	GR	← (0, 5 ; 15)	GR	A	25.165 16	−1.9	8827
433	R (0, 4 ; 16)	GR	← (0, 4 ; 15)	GR	E	25.168 36	3.9	8993
434	R (0, −3 ; 16)	GR	← (0, −3 ; 15)	GR	E	25.168 36	−6.9	8993
* 435	R (0, 3 $^+$; 16)	GR	← (0, 3 $^+$; 15)	GR	A	25.170 57	−1.6	7240
* 436	R (0, 4 ; 16)	GR	← (0, 4 ; 15)	GR	A	25.175 00	−1.4	6849
* 437	R (0, 3 $^-$; 16)	GR	← (0, 3 $^-$; 15)	GR	A	25.175 00	−2.5	6849
* 438	Q (0, −3 ; 18)	GR	← (0, −2 ; 18)	GR	E	25.176 84	−1.1	5751
* 439	R (0, 1 ; 16)	GR	← (0, 1 ; 15)	GR	E	25.181 95	−0.1	8352
* 440	R (0, 3 ; 16)	GR	← (0, 3 ; 15)	GR	E	25.191 10	0.1	8816
* 441	R (0, 2 $^+$; 16)	GR	← (0, 2 $^+$; 15)	GR	A	25.192 36	2.3	4680
* 442	R (0, 2 ; 16)	GR	← (0, 2 ; 15)	GR	E	25.205 13	−1.5	8262
* 443	R (0, −2 ; 7)	GR	← (0, −1 ; 6)	GR	E	25.217 40	−1.5	8008
* 444	R (0, −2 ; 16)	GR	← (0, −2 ; 15)	GR	E	25.239 98	−2.8	8213
* 445	Q (0, −5 ; 14)	GR	← (0, −4 ; 14)	GR	E	25.266 72	−0.9	8270
* 446	Q (0, −5 ; 13)	GR	← (0, −4 ; 13)	GR	E	25.266 72	−2.4	8270
447	Q (0, −5 ; 15)	GR	← (0, −4 ; 15)	GR	E	25.266 72	−6.7	8270
448	Q (0, −5 ; 12)	GR	← (0, −4 ; 12)	GR	E	25.268 33	6.3	8291
* 449	Q (0, −5 ; 16)	GR	← (0, −4 ; 16)	GR	E	25.268 33	−2.5	8291
* 450	Q (0, −5 ; 11)	GR	← (0, −4 ; 11)	GR	E	25.268 33	−2.8	8291



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 451	Q (0, −5 ; 10) GR	←	(0, −4 ; 10) GR	E	25.269 83	−2.6	8163
452	Q (0, −5 ; 17) GR	←	(0, −4 ; 17) GR	E	25.271 44	6.9	6985
* 453	Q (0, −5 ; 9) GR	←	(0, −4 ; 9) GR	E	25.271 44	−0.7	6985
454	Q (0, −5 ; 8) GR	←	(0, −4 ; 8) GR	E	25.273 69	5.5	9276
* 455	Q (0, −5 ; 18) GR	←	(0, −4 ; 18) GR	E	25.273 69	−1.2	9276
456	Q (0, −5 ; 7) GR	←	(0, −4 ; 7) GR	E	25.275 82	10.5	7074
457	Q (0, −5 ; 6) GR	←	(0, −4 ; 6) GR	E	25.275 82	−5.2	7074
* 458	Q (0, −5 ; 5) GR	←	(0, −4 ; 5) GR	E	25.277 98	1.4	9039
* 459	Q (0, −5 ; 19) GR	←	(0, −4 ; 19) GR	E	25.277 98	−2.6	9039
* 460	Q (0, −3 ; 17) GR	←	(0, −2 ; 17) GR	E	25.281 99	−2.7	8542
* 461	Q (0, −5 ; 20) GR	←	(0, −4 ; 20) GR	E	25.283 83	−1.7	8451
* 462	Q (0, −5 ; 21) GR	←	(0, −4 ; 21) GR	E	25.291 00	−2.5	7717
* 463	Q (0, −5 ; 22) GR	←	(0, −4 ; 22) GR	E	25.300 05	−1.6	6137
* 464	Q (0, −5 ; 23) GR	←	(0, −4 ; 23) GR	E	25.311 01	−0.5	6248
* 465	Q (0, −5 ; 24) GR	←	(0, −4 ; 24) GR	E	25.323 84	−1.8	4734
* 466	Q (0, −5 ; 25) GR	←	(0, −4 ; 25) GR	E	25.339 10	−0.6	4662
* 467	R (0, 1 −; 16) GR	←	(0, 1 −; 15) GR	A	25.355 04	−2.4	8606
* 468	Q (0, −5 ; 26) GR	←	(0, −4 ; 26) GR	E	25.356 89	0.9	5429
* 469	Q (0, −3 ; 16) GR	←	(0, −2 ; 16) GR	E	25.369 21	−2.6	8063
* 470	Q (0, −5 ; 27) GR	←	(0, −4 ; 27) GR	E	25.377 29	2.1	4867
471	Q (0, −5 ; 28) GR	←	(0, −4 ; 28) GR	E	25.399 55	−6.1	3570
* 472	R (0, 2 −; 6) GR	←	(0, 1 −; 5) GR	A	25.402 95	−2.1	6225
* 473	Q (0, −5 ; 29) GR	←	(0, −4 ; 29) GR	E	25.426 16	−1.3	3961
* 474	Q (0, −3 ; 15) GR	←	(0, −2 ; 15) GR	E	25.440 60	−0.8	6765
* 475	Q (0, −5 ; 30) GR	←	(0, −4 ; 30) GR	E	25.455 78	0.3	3861
* 476	Q (0, −5 ; 31) GR	←	(0, −4 ; 31) GR	E	25.488 04	−4.6	2923
477	Q (0, −3 ; 14) GR	←	(0, −2 ; 14) GR	E	25.497 88	−4.6	7373
* 478	R (0, −4 ; 5) GR	←	(0, −3 ; 4) GR	E	25.529 81	−1.1	8325
* 479	Q (0, −3 ; 13) GR	←	(0, −2 ; 13) GR	E	25.543 73	−2.4	9638
* 480	P (0, −8 ; 10) GR	←	(0, −7 ; 11) GR	E	25.560 45	−1.5	4822
* 481	Q (0, −3 ; 12) GR	←	(0, −2 ; 12) GR	E	25.579 56	−2.3	7805
* 482	Q (0, −3 ; 11) GR	←	(0, −2 ; 11) GR	E	25.607 32	−0.7	8832
483	Q (0, −3 ; 10) GR	←	(0, −2 ; 10) GR	E	25.627 76	−4.8	8294
* 484	Q (0, −3 ; 9) GR	←	(0, −2 ; 9) GR	E	25.643 58	0.2	7636
485	Q (0, −3 ; 8) GR	←	(0, −2 ; 8) GR	E	25.654 06	−4.1	7078
* 486	Q (0, −3 ; 7) GR	←	(0, −2 ; 7) GR	E	25.661 70	−2.4	7747
* 487	Q (0, −3 ; 6) GR	←	(0, −2 ; 6) GR	E	25.666 54	−2.2	8902
488	R (0, 3 ; 5) GR	←	(0, 2 ; 4) GR	E	25.666 54	−6.4	8902
* 489	Q (0, −3 ; 5) GR	←	(0, −2 ; 5) GR	E	25.669 43	−2.1	6945
* 490	Q (0, −3 ; 4) GR	←	(0, −2 ; 4) GR	E	25.671 31	1.3	7340
491	Q (0, −3 ; 3) GR	←	(0, −2 ; 3) GR	E	25.671 31	−5.0	7340
* 492	R (0, 3 +; 11) GR	←	(0, 2 +; 10) GR	A	25.801 50	−3.0	8661
* 493	R (0, 2 +; 6) GR	←	(0, 1 +; 5) GR	A	25.805 31	−1.7	6489
* 494	R (0, 3 −; 11) GR	←	(0, 2 −; 10) GR	A	25.837 13	0.2	8860
* 495	P (0, 7 ; 14) GR	←	(0, 6 ; 15) GR	E	25.990 92	1.7	3499
* 496	P (0, 5 ; 8) GR	←	(0, 4 ; 9) GR	A	25.997 49	−0.8	6123
* 497	P (0, −7 ; 14) GR	←	(0, −6 ; 15) GR	E	26.159 48	2.9	3011
* 498	R (0, 2 ; 16) GR	←	(0, 1 ; 15) GR	E	26.227 35	−0.9	7252
* 499	R (0, 1 ; 13) GR	←	(0, 0 ; 12) GR	E	26.243 08	−0.5	7020
* 500	R (1, 9 ; 16) GR	←	(1, 8 ; 15) GR	A	26.405 95	−0.5	4889
* 501	P (0, 6 ; 7) GR	←	(0, 5 ; 8) GR	A	26.418 30	−2.8	3469
* 502	P (1, −4 ; 19) GR	←	(1, −3 ; 20) GR	E	26.457 55	−0.8	4704
* 503	R (0, 1 +; 17) GR	←	(0, 1 +; 16) GR	A	26.489 78	0.0	9313
* 504	P (0, 8 ; 16) GR	←	(0, 7 ; 17) GR	A	26.558 06	−3.0	4664
* 505	R (0, 1 +; 11) GR	←	(0, 0 +; 10) GR	A	26.573 55	1.7	9043
506	R (0, 0 ; 17) GR	←	(0, 0 ; 16) GR	E	26.573 55	−5.6	9043
* 507	R (1, 6 ; 17) GR	←	(1, 6 ; 16) GR	A	26.600 86	−1.0	6028
* 508	R (1, 3 ; 17) GR	←	(1, 3 ; 16) GR	E	26.603 74	−1.5	5858
* 509	R (1, 1 ; 21) GR	←	(1, 0 ; 20) GR	E	26.611 29	1.4	4977
* 510	R (1, 1 +; 17) GR	←	(1, 1 +; 16) GR	A	26.628 97	−3.4	6951
* 511	R (2, 3 ; 17) GR	←	(2, 3 ; 16) GR	A	26.637 95	1.3	7018
512	R (2, 4 ; 17) GR	←	(2, 4 ; 16) GR	A	26.637 95	−9.1	7018
* 513	R (1, −2 ; 17) GR	←	(1, −2 ; 16) GR	E	26.646 00	−3.0	5435
* 514	R (1, −6 ; 17) GR	←	(1, −6 ; 16) GR	E	26.649 25	−3.1	5375
515	R (0, −1 ; 17) GR	←	(0, −1 ; 16) GR	E	26.655 69	4.2	6607
* 516	R (1, 4 ; 17) GR	←	(1, 4 ; 16) GR	E	26.655 69	0.7	6607
* 517	R (1, 7 ; 17) GR	←	(1, 7 ; 16) GR	A	26.656 27	2.9	4659
* 518	R (1, 5 ; 17) GR	←	(1, 5 ; 16) GR	A	26.656 27	0.5	4659
519	R (1, 2 +; 17) GR	←	(1, 2 +; 16) GR	A	26.657 62	6.8	3254
520	R (1, −3 ; 17) GR	←	(1, −3 ; 16) GR	E	26.657 17	−6.2	4067
521	R (1, 1 ; 17) GR	←	(1, 1 ; 16) GR	E	26.658 84	−4.6	4222
* 522	R (1, 2 −; 17) GR	←	(1, 2 −; 16) GR	A	26.661 17	−0.4	6100
* 523	R (1, 3 ; 17) GR	←	(1, 3 ; 16) GR	A	26.674 94	−1.4	7800
524	R (1, 2 ; 17) GR	←	(1, 2 ; 16) GR	E	26.674 94	−4.5	7800
* 525	R (1, −1 ; 17) GR	←	(1, −1 ; 16) GR	E	26.676 69	−2.6	5326
* 526	R (0, 0 +; 17) GR	←	(0, 0 +; 16) GR	A	26.679 99	−0.4	9479
* 527	R (1, 0 +; 17) GR	←	(1, 0 +; 16) GR	A	26.679 99	−0.9	9479
528	P (0, −11 ; 28) GR	←	(0, −10 ; 29) GR	E	26.679 99	−4.1	9479
529	R (1, 1 −; 17) GR	←	(1, 1 −; 16) GR	A	26.679 99	−6.3	9479
530	R (1, −5 ; 17) GR	←	(1, −5 ; 16) GR	E	26.687 58	−3.9	5703
* 531	R (0, 12 ; 17) GR	←	(0, 12 ; 16) GR	A	26.692 41	−2.4	4061
* 532	R (0, 10 ; 17) GR	←	(0, 10 ; 16) GR	A	26.704 59	−2.4	4665
533	R (0, −10 ; 17) GR	←	(0, −10 ; 16) GR	E	26.709 45	8.0	5574
* 534	R (0, 2 −; 17) GR	←	(0, 2 −; 16) GR	A	26.711 25	−0.5	5061
* 535	R (0, −9 ; 17) GR	←	(0, −9 ; 16) GR	E	26.711 25	−1.6	6404
536	R (0, −1 ; 20) GR	←	(0, 0 ; 19) GR	E	26.711 25	−3.3	6404
* 537	R (0, 9 ; 17) GR	←	(0, 9 ; 16) GR	A	26.713 13	−1.1	7375
* 538	R (0, −8 ; 17) GR	←	(0, −8 ; 16) GR	E	26.714 97	0.2	6059
* 539	R (0, 8 ; 17) GR	←	(0, 8 ; 16) GR	A	26.718 54	−2.9	6683
540	R (0, 7 ; 17) GR	←	(0, 7 ; 16) GR	A	26.720 00	−4.8	8853
541	R (1, 5 ; 17) GR	←	(1, 5 ; 16) GR	E	26.720 00	−4.9	8853
* 542	R (0, −7 ; 17) GR	←	(0, −7 ; 16) GR	E	26.723 29	−1.1	5877
543	R (0, 6 ; 17) GR	←	(0, 6 ; 16) GR	A	26.725 42	−7.8	9299
544	R (0, 6 ; 17) GR	←	(0, 6 ; 16) GR	E	26.726 60	−5.1	4302
* 545	R (0, 5 ; 17) GR	←	(0, 5 ; 16) GR	E	26.728 64	−2.5	8626
* 546	R (0, −6 ; 17) GR	←	(0, −6 ; 16) GR	E	26.730 66	−1.4	7143
* 547	R (0, −4 ; 17) GR	←	(0, −4 ; 16) GR	E	26.733 11	−0.5	8497
* 548	R (0, 5 ; 17) GR	←	(0, 5 ; 16) GR	A	26.735 10	0.6	9668
* 549	R (0, −5 ; 17) GR	←	(0, −5 ; 16) GR	E	26.735 10	−2.4	9668
* 550	R (0, 4 ; 17) GR	←	(0, 4 ; 16) GR	E	26.737 94	2.6	9150
551	R (0, −3 ; 17) GR	←	(0, −3 ; 16) GR	E	26.737 94	−6.2	9150
* 552	R (0, 3 +; 17) GR	←	(0, 3 +; 16) GR	A	26.740 60	−1.3	9508
* 553	R (0, 4 ; 17) GR	←	(0, 4 ; 16) GR	A	26.746 52	−1.3	9607
* 554	R (0, 3 −; 17) GR	←	(0, 3 −; 16) GR	A	26.746 52	−2.2	9607
* 555	R (0, 1 ; 17) GR	←	(0, 1 ; 16) GR	E	26.752 98	−2.5	7467
* 556	R (0, 3 ; 17) GR	←	(0, 3 ; 16) GR	E	26.765 17	−1.8	0
* 557	R (0, 2 +; 17) GR	←	(0, 2 +; 16) GR	A	26.765 43	−1.8	7133
* 558	R (0, 2 ; 17) GR	←	(0, 2 ; 16) GR	E	26.775 07	−2.5	8104
* 559	R (0, −2 ; 8) GR	←	(0, −1 ; 7) GR	E	26.805 16	−0.6	8709
* 560	R (0, −2 ; 17) GR	←	(0, −2 ; 16) GR	E	26.825 62	−1.5	8649
* 561	R (0, 2 −; 7) GR	←	(0, 1 −; 6) GR	A	26.897 14	−1.8	8340
* 562	R (0, 1 −; 17) GR	←	(0, 1 −; 16) GR	A	26.932 34	−1.5	7719
563	P (1, 5 ; 11) GR	←	(1, 4 ; 12) GR	E	27.059 58	4.4	4786
* 564	R (0, −4 ; 6) GR	←	(0, −3 ; 5) GR	E	27.102 39	−1.2	8851
* 565	P (0, −8 ; 9) GR	←	(0, −7 ; 10) GR	E	27.136 61	−2.8	3549
* 566	R (0, 3 ; 6) GR	←	(0, 2 ; 5) GR	E	27.239 54	−2.1	8117
* 567	R (0, 3 +; 12) GR	←	(0, 2 +; 11) GR	A	27.365 85	−1.5	7753
* 568	R (0, 3 −; 12) GR	←	(0, 2 −; 11) GR	A	27.417 22	−1.9	8169
* 569	R (0, 2 +; 7) GR	←	(0, 1 +; 6) GR	A	27.462 28	−1.6	8255
* 570	P (0, 7 ; 13) GR	←	(0, 6 ; 14) GR	E	27.562 52	0.4	5078
* 571	P (0, 5 ; 7) GR	←	(0, 4 ; 8) GR	A	27.572 17	−1.6	4736
* 572	Q (0, 5 ; 32) GR	←	(0, 4 ; 32) GR	E	27.640 16	1.4	4011
* 573	R (0, 4 ; 4) GR	←	(0, 3 ; 3) GR	A	27.664 25	−0.4	9066
* 574	Q (0, 5 ; 31) GR	←	(0, 4 ; 31) GR	E	27.680 33	−2.0	4485
* 575	Q (0, 5 ; 30) GR	←	(0, 4 ; 30) GR	E	27.717 82	−0.3	3205
* 576	P (0, −7 ; 13) GR	←	(0, −6 ; 14) GR	E	27.733 72	−2.8	3929
* 577	Q (0, 5 ; 29) GR	←	(0, 4 ; 29) GR	E	27.752 41	1.1	4210
* 578	Q (0, 5 ; 28) GR	←	(0, 4 ; 28) GR	E	27.783 51	−1.5	3979
* 579	Q (0, 5 ; 27) GR	←	(0, 4 ; 27) GR	E	27.812 34	−1.2	6120
* 580	R (0, 2 ; 17) GR	←	(0, 1 ; 16) GR	E	27.820 95	1.7	7247
* 581	Q (0, 5 ; 26) GR	←	(0, 4 ; 26) GR	E	27.838 55	−2.5	6114
* 582	Q (0, 5 ; 25) GR	←	(0, 4 ; 25) GR	E	27.862 89	2.7	6259
* 583	Q (0, 5 ; 24) GR	←	(0, 4 ; 24) GR	E	27.884 01	−2.1	6482
584	Q (0, 5 ; 23) GR	←	(0, 4 ; 23) GR	E	27.903 30	−4.9	3135
* 585	R (0, 1 ; 14) GR	←	(0, 0 ; 13) GR	E	27.904 80	−2.6	7505
* 586	Q (0, 5 ; 22) GR	←	(0, 4 ; 22) GR	E	27.921 09	−2.1	5768
* 587	Q (0, 5 ; 21) GR	←	(0, 4 ; 21) GR	E	27.936 86	−1.6	6121
* 588	Q (0, 5 ; 20) GR	←	(0, 4 ; 20) GR	E	27.951 12	−0.7	7368
* 589	Q (0, 5 ; 19) GR	←	(0, 4 ; 19) GR	E	27.963 67	−0.3	7245
* 590	Q (0, 5 ; 18) GR	←	(0, 4 ; 18) GR	E	27.974 63	−2.6	6930
* 591	Q (0, 5 ; 17) GR	←	(0, 4 ; 17) GR	E	27.984 63	0.0	8004
592	P (1, −4 ; 18) GR	←	(1, −3 ; 19) GR	E	27.984 63	−9.0	8004
593	P (0, 6 ; 6) GR	←	(0, 5 ; 7) GR	A	27.993 70	3.6	9627
* 594	Q (0, 5 ; 16) GR	←	(0, 4 ; 16) GR	E	27.993 70	2.8	9627
595	R (0, 1 +; 12) GR	←	(0, 0 +; 11) GR	A	27.993 70	−5.5	9627
* 596	R (1, 9 ; 17) GR	←	(1, 8 ; 16) GR	A	27.997 06	−1.6	6723
* 597	Q (0, 5 ; 15) GR	←	(0, 4 ; 15) GR	E	28.000 83	−1.0	8248
* 598	Q (0, 5 ; 14) GR	←	(0, 4 ; 14) GR	E	28.007 42	−1.5	8163
* 599	Q (0, 5 ; 13) GR	←	(0, 4 ; 13) GR	E	28.013 11	−1.4	7724
* 600	Q (0, 5 ; 12) GR	←	(0, 4 ; 12) GR	E	28.018 12	−0.4	8029



Index	upper state T	(n,	K	; J)	v	←	lower state (n,	K	; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 601	Q	(0,	5	; 11)	GR	←	(0,	4	; 11)	GR	E	28.022 32	−1.4	6582
* 602	Q	(0,	5	; 10)	GR	←	(0,	4	; 10)	GR	E	28.025 86	−2.7	8094
* 603	Q	(0,	5	; 9)	GR	←	(0,	4	; 9)	GR	E	28.029 12	−0.3	7947
* 604	Q	(0,	5	; 8)	GR	←	(0,	4	; 8)	GR	E	28.031 57	−1.7	8082
* 605	Q	(0,	5	; 7)	GR	←	(0,	4	; 7)	GR	E	28.033 67	−2.2	7854
* 606	Q	(0,	5	; 6)	GR	←	(0,	4	; 6)	GR	E	28.035 71	0.4	6328
* 607	Q	(0,	5	; 5)	GR	←	(0,	4	; 5)	GR	E	28.037 42	3.1	5184
* 608	R	(0,	1 +	; 18)	GR	←	(0,	1 +	; 17)	GR	A	28.041 11	−2.0	6515
* 609	R	(0,	0	; 18)	GR	←	(0,	0	; 17)	GR	E	28.118 71	−1.8	8629
* 610	R	(1,	6	; 18)	GR	←	(1,	6	; 17)	GR	A	28.154 61	−2.1	5420
* 611	R	(1,	3	; 18)	GR	←	(1,	3	; 17)	GR	E	28.157 23	−3.1	4766
612	R	(1,	1	; 22)	GR	←	(1,	0	; 21)	GR	E	28.172 25	−6.7	4058
* 613	R	(1,	1 +	; 18)	GR	←	(1,	1 +	; 17)	GR	A	28.190 13	−2.4	6893
* 614	R	(2,	3	; 18)	GR	←	(2,	3	; 17)	GR	A	28.201 54	4.1	8013
615	R	(2,	4	; 18)	GR	←	(2,	4	; 17)	GR	A	28.201 54	−4.1	8013
* 616	R	(1,	5	; 18)	GR	←	(1,	5	; 17)	GR	A	28.205 72	−1.1	7108
* 617	R	(1,	−2	; 18)	GR	←	(1,	−2	; 17)	GR	E	28.207 20	0.2	6244
* 618	R	(0,	−1	; 18)	GR	←	(0,	−1	; 17)	GR	E	28.209 18	−2.0	9076
* 619	R	(1,	−6	; 18)	GR	←	(1,	−6	; 17)	GR	E	28.212 43	−0.8	6171
620	R	(1,	4	; 18)	GR	←	(1,	4	; 17)	GR	E	28.219 47	6.7	7522
* 621	R	(1,	2 +	; 18)	GR	←	(1,	2 +	; 17)	GR	A	28.219 47	−2.1	7522
622	R	(1,	7	; 18)	GR	←	(1,	7	; 17)	GR	A	28.219 47	−6.5	7522
* 623	R	(1,	0	; 18)	GR	←	(1,	0	; 17)	GR	E	28.220 82	−2.0	7848
624	R	(1,	−3	; 18)	GR	←	(1,	−3	; 17)	GR	E	28.220 82	−4.1	7848
* 625	R	(1,	1	; 18)	GR	←	(1,	1	; 17)	GR	E	28.222 52	0.3	5582
* 626	R	(1,	2 −	; 18)	GR	←	(1,	2 −	; 17)	GR	A	28.224 73	−1.3	5691
* 627	R	(0,	0 +	; 18)	GR	←	(0,	0 +	; 17)	GR	A	28.238 34	0.1	8120
* 628	R	(1,	3	; 18)	GR	←	(1,	3	; 17)	GR	A	28.241 75	3.1	6928
* 629	R	(1,	2	; 18)	GR	←	(1,	2	; 17)	GR	E	28.241 75	2.0	6928
630	R	(1,	−1	; 18)	GR	←	(1,	−1	; 17)	GR	E	28.243 88	9.2	7156
631	R	(1,	1 −	; 18)	GR	←	(1,	1 −	; 17)	GR	A	28.243 88	−5.5	7156
* 632	R	(1,	0 +	; 18)	GR	←	(1,	0 +	; 17)	GR	A	28.246 04	−0.8	5983
* 633	R	(1,	−5	; 18)	GR	←	(1,	−5	; 17)	GR	E	28.256 73	−2.3	5228
* 634	R	(0,	12	; 18)	GR	←	(0,	12	; 17)	GR	A	28.258 52	0.3	4599
* 635	R	(0,	11	; 18)	GR	←	(0,	11	; 17)	GR	A	28.260 55	−3.0	5946
636	P	(0,	−11	; 27)	GR	←	(0,	−10	; 28)	GR	E	28.262 80	−3.2	5712
* 637	R	(0,	10	; 18)	GR	←	(0,	10	; 17)	GR	A	28.270 92	−0.8	6682
* 638	R	(0,	2 −	; 18)	GR	←	(0,	2 −	; 17)	GR	A	28.274 82	−0.2	8350
* 639	R	(0,	−10	; 18)	GR	←	(0,	−10	; 17)	GR	E	28.275 86	1.8	4818
640	R	(0,	−9	; 18)	GR	←	(0,	−9	; 17)	GR	E	28.278 29	−5.7	5184
* 641	R	(0,	−8	; 18)	GR	←	(0,	−8	; 17)	GR	E	28.281 49	−1.9	5646
* 642	R	(0,	8	; 18)	GR	←	(0,	8	; 17)	GR	A	28.286 68	−0.7	5427
* 643	R	(0,	7	; 18)	GR	←	(0,	7	; 17)	GR	A	28.288 02	0.7	4712
* 644	R	(0,	−7	; 18)	GR	←	(0,	−7	; 17)	GR	E	28.290 73	−1.1	6481
* 645	R	(1,	4	; 18)	GR	←	(1,	4	; 17)	GR	A	28.293 50	−0.6	9600
* 646	R	(0,	6	; 18)	GR	←	(0,	6	; 17)	GR	A	28.293 50	−2.2	9600
647	R	(0,	9	; 18)	GR	←	(0,	9	; 17)	GR	A	28.293 50	−6.0	9600
* 648	R	(0,	6	; 18)	GR	←	(0,	6	; 17)	GR	E	28.295 11	−0.8	7894
* 649	R	(1,	5	; 18)	GR	←	(1,	5	; 17)	GR	E	28.295 11	−1.8	7894
* 650	R	(0,	5	; 18)	GR	←	(0,	5	; 17)	GR	E	28.296 80	−0.4	6649
* 651	R	(0,	−6	; 18)	GR	←	(0,	−6	; 17)	GR	E	28.299 20	−2.7	7388
* 652	R	(0,	−4	; 18)	GR	←	(0,	−4	; 17)	GR	E	28.301 43	−1.5	7913
* 653	R	(0,	5	; 18)	GR	←	(0,	5	; 17)	GR	A	28.304 08	1.8	9419
654	R	(0,	−5	; 18)	GR	←	(0,	−5	; 17)	GR	E	28.304 08	−5.6	9419
* 655	R	(0,	4	; 18)	GR	←	(0,	4	; 17)	GR	E	28.306 77	1.9	9360
656	R	(0,	−3	; 18)	GR	←	(0,	−3	; 17)	GR	E	28.306 77	−6.1	9360
* 657	R	(0,	3 +	; 18)	GR	←	(0,	3 +	; 17)	GR	A	28.309 91	−0.6	7499
* 658	R	(0,	4	; 18)	GR	←	(0,	4	; 17)	GR	A	28.317 79	−1.1	9666
* 659	R	(0,	3 −	; 18)	GR	←	(0,	3 −	; 17)	GR	A	28.317 79	−1.2	9666
* 660	R	(0,	1	; 18)	GR	←	(0,	1	; 17)	GR	E	28.323 73	−0.6	8250
* 661	R	(0,	2 +	; 18)	GR	←	(0,	2 +	; 17)	GR	A	28.339 28	−0.3	5271
662	R	(0,	3	; 18)	GR	←	(0,	3	; 17)	GR	E	28.339 28	−3.9	6651
* 663	R	(0,	2	; 18)	GR	←	(0,	2	; 17)	GR	E	28.342 65	−1.9	8256
* 664	R	(0,	−1	; 21)	GR	←	(0,	0	; 20)	GR	E	28.367 97	−1.0	7749
* 665	R	(0,	2 −	; 8)	GR	←	(0,	1 −	; 7)	GR	A	28.377 68	−1.3	7466
* 666	R	(0,	−2	; 9)	GR	←	(0,	−1	; 8)	GR	E	28.398 92	−1.3	8632
* 667	R	(0,	−2	; 18)	GR	←	(0,	−2	; 17)	GR	E	28.412 47	−2.1	8606
* 668	R	(0,	1 −	; 18)	GR	←	(0,	1 −	; 17)	GR	A	28.508 12	−0.8	8351
669	P	(1,	5	; 10)	GR	←	(1,	4	; 11)	GR	E	28.610 16	3.5	3692
* 670	P	(0,	9	; 24)	GR	←	(0,	8	; 25)	GR	A	28.633 04	−2.7	4162
* 671	R	(0,	−4	; 7)	GR	←	(0,	−3	; 6)	GR	E	28.674 51	−0.8	8238
* 672	R	(0,	3	; 7)	GR	←	(0,	2	; 6)	GR	E	28.811 16	−1.5	8056
* 673	R	(0,	3 +	; 13)	GR	←	(0,	2 +	; 12)	GR	A	28.927 89	−0.3	7420
* 674	R	(0,	3 −	; 13)	GR	←	(0,	2 −	; 12)	GR	A	29.000 36	−0.8	8703
* 675	R	(0,	2 +	; 8)	GR	←	(0,	1 +	; 7)	GR	A	29.133 96	−0.7	7990

Index	upper state T	(n,	K	; J)	v	←	lower state (n,	K	; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
676	P	(0,	7	; 12)	GR	←	(0,	6	; 13)	GR	E	29.133 96	−10.1	7990
* 677	P	(0,	5	; 6)	GR	←	(0,	4	; 7)	GR	A	29.146 97	0.9	4236
* 678	R	(0,	4	; 5)	GR	←	(0,	3	; 4)	GR	A	29.237 60	−0.5	9453
* 679	P	(0,	−7	; 12)	GR	←	(0,	−6	; 13)	GR	E	29.308 68	−0.3	3529
* 680	R	(0,	1 +	; 13)	GR	←	(0,	0 +	; 12)	GR	A	29.403 87	−1.5	9271
* 681	R	(0,	2	; 18)	GR	←	(0,	1	; 17)	GR	E	29.410 31	−0.8	7278
* 682	P	(1,	−4	; 17)	GR	←	(1,	−3	; 18)	GR	E	29.519 13	−2.5	3907
* 683	R	(0,	1	; 15)	GR	←	(0,	0	; 14)	GR	E	29.586 22	−2.0	5154
* 684	R	(1,	9	; 18)	GR	←	(1,	8	; 17)	GR	A	29.587 59	−3.1	2181
* 685	R	(0,	1 +	; 19)	GR	←	(0,	1 +	; 18)	GR	A	29.591 70	−0.3	7690
* 686	R	(0,	0	; 19)	GR	←	(0,	0	; 18)	GR	E	29.661 93	−1.8	8239
* 687	P	(0,	8	; 18)	GR	←	(0,	7	; 19)	GR	E	29.670 87	0.1	4222
* 688	P	(0,	8	; 14)	GR	←	(0,	7	; 15)	GR	A	29.699 08	−2.8	4314
* 689	R	(1,	6	; 19)	GR	←	(1,	6	; 18)	GR	A	29.707 20	2.0	7443
* 690	R	(1,	3	; 19)	GR	←	(1,	3	; 18)	GR	E	29.709 42	−2.6	5960
* 691	R	(1,	1	; 23)	GR	←	(1,	0	; 22)	GR	E	29.734 13	1.4	4558
* 692	R	(1,	1 +	; 19)	GR	←	(1,	1 +	; 18)	GR	A	29.750 47	0.9	6595
* 693	R	(0,	−1	; 19)	GR	←	(0,	−1	; 18)	GR	E	29.761 76	−0.9	8763
* 694	R	(2,	3	; 19)	GR	←	(2,	3	; 18)	GR	A	29.763 96	2.7	8188
695	R	(2,	4	; 19)	GR	←	(2,	4	; 18)	GR	A	29.763 96	−6.9	8188
* 696	R	(1,	−2	; 19)	GR	←	(1,	−2	; 18)	GR	E	29.766 54	−3.1	7410
* 697	R	(1,	−6	; 19)	GR	←	(1,	−6	; 18)	GR	E	29.774 34	−1.7	4568
* 698	R	(1,	4	; 19)	GR	←	(1,	4	; 18)	GR	E	29.781 13	1.8	6927
* 699	R	(1,	2 +	; 19)	GR	←	(1,	2 +	; 18)	GR	A	29.781 13	−4.0	6927
700	R	(1,	0	; 19)	GR	←	(1,	0	; 18)	GR	E	29.783 34	3.5	8391
* 701	R	(1,	−3	; 19)	GR	←	(1,	−3	; 18)	GR	E	29.783 34	−1.2	8391
* 702	R	(1,	7	; 19)	GR	←	(1,	7	; 18)	GR	A	29.783 34	−3.6	8391
703	R	(1,	1	; 19)	GR	←	(1,	1	; 18)	GR	E	29.785 74	10.2	6789
* 704	R	(1,	5	; 19)	GR	←	(1,	5	; 18)	GR	A	29.785 74	−2.9	6789
* 705	R	(1,	2 −	; 19)	GR	←	(1,	2 −	; 18)	GR	A	29.787 69	0.0	6399
* 706	R	(0,	0 +	; 19)	GR	←	(0,	0 +	; 18)	GR	A	29.794 80	−0.8	8262
* 707	R	(1,	1 −	; 19)	GR	←	(1,	1 −	; 18)	GR	A	29.807 08	−0.6	9109
* 708	R	(1,	2	; 19)	GR	←	(1,	2	; 18)	GR	E	29.807 08	−1.3	9109
* 709	R	(1,	3	; 19)	GR	←	(1,	3	; 18)	GR	A	29.807 08	−2.0	9109
* 710	R	(1,	−1	; 19)	GR	←	(1,	−1	; 18)	GR	E	29.808 51	−0.4	8359
* 711	R	(1,	0 +	; 19)	GR	←	(1,	0 +	; 18)	GR	A	29.811 85	−0.2	5973
* 712	R	(1,	−4	; 19)	GR	←	(1,	−4	; 18)	GR	E	29.816 79	−2.8	7006
* 713	R	(0,	12	; 19)	GR	←	(0,	12	; 18)	GR	A	29.824 01	0.9	4600
* 714	R	(1,	−5	; 19)	GR	←	(1,	−5	; 18)	GR	E	29.825 65	−0.6	5401
* 715	R	(0,	11	; 19)	GR	←	(0,	11	; 18)	GR	A	29.825 65	−1.0	5401
* 716	R	(0,	10	; 19)	GR	←	(0,	10	; 18)	GR	A	29.836 87	2.7	8968
* 717	R	(0,	2 −	; 19)	GR	←	(0,	2 −	; 18)	GR	A	29.836 87	−2.3	8968
* 718	R	(0,	−10	; 19)	GR	←	(0,	−10	; 18)	GR	E	29.842 30	1.7	6690
719	R	(0,	9	; 19)	GR	←	(0,	9	; 18)	GR	A	29.842 30	−8.1	6690
* 720	R	(0,	2 −	; 9)	GR	←	(0,	1 −	; 8)	GR	A	29.844 47	−0.7	8675
721	P	(0,	−11	; 26)	GR	←	(0,	−10	; 27)	GR	E	29.844 47	−4.7	8675
722	R	(0,	−9	; 19)	GR	←	(0,	−9	; 18)	GR	E	29.844 47	−6.6	8675
* 723	R	(0,	−8	; 19)	GR	←	(0,	−8	; 18)	GR	E	29.847 71	−1.2	5111
* 724	R	(0,	8	; 19)	GR	←	(0,	8	; 18)	GR	A	29.853 98	1.0	9334
725	R	(0,	7	; 19)	GR	←	(0,	7	; 18)	GR	A	29.853 98	−7.1	9334
* 726	R	(0,	−7	; 19)	GR	←	(0,	−7	; 18)	GR	E	29.857 66	−1.1	5805
* 727	R	(0,	6	; 19)	GR	←	(0,	6	; 18)	GR	A	29.860 60	−1.0	9504
* 728	R	(0,	6	; 19)	GR	←	(0,	6	; 18)	GR	E	29.863 43	2.9	8089
729	R	(0,	5	; 19)	GR	←	(0,	5	; 18)	GR	E	29.863 43	−4.3	8089
* 730	R	(0,	−6	; 19)	GR	←	(0,	−6	; 18)	GR	E	29.867 80	0.6	7614
* 731	R	(1,	4	; 19)	GR	←	(1,	4	; 18)	GR	A	29.867 80	−1.7	7614
* 732	R	(0,	−4	; 19)	GR	←	(0,	−4	; 18)	GR	E	29.869 44	2.0	7995
733	R	(1,	5	; 19)	GR	←	(1,	5	; 18)	GR	E	29.869 44	−9.8	7995
* 734	R	(0,	5	; 19)	GR	←	(0,	5	; 18)	GR	A	29.872 38	0.5	8594
* 735	R	(0,	−5	; 19)	GR	←	(0,	−5	; 18)	GR	E	29.873 82	1.5	5206
* 736	R	(0,	4	; 19)	GR	←	(0,	4	; 18)	GR	E	29.875 10	0.6	8652
737	R	(0,	−3	; 19)	GR	←	(0,	−3	; 18)	GR	E	29.875 10	−5.2	8652
* 738	R	(0,	3 +	; 19)	GR	←	(0,	3 +	; 18)	GR	A	29.878 14	−2.8	8278
739	R	(0,	4 −	; 19)	GR	←	(0,	4	; 18)	GR	A	29.888 49	4.4	4082
* 740	R	(0,	4 +	; 19)	GR	←	(0,	4	; 18)	GR	A	29.888 49	−3.8	4082
741	R	(0,	3 −	; 19)	GR	←	(0,	3 −	; 18)	GR	A	29.888 49	−4.5	4082
742	Q	(0,	6	; 20)	GR	←	(0,	5	; 20)	GR	E	29.893 99	4.4	7326
743	R	(0,	1	; 19)	GR	←	(0,	1	; 18)	GR	E	29.894 15	4.8	6460
* 744	Q	(0,	6	; 19)	GR	←	(0,	5	; 19)	GR	E	29.893 99	0.6	7326
* 745	Q	(0,	6	; 21)	GR	←	(0,	5	; 21)	GR	E	29.893 99	−1.9	7326
746	Q	(0,	6	; 18)	GR	←	(0,	5	; 18)	GR	E	29.893 99	−6.5	7326
* 747	Q	(0,	6	; 22)	GR	←	(0,	5	; 22)	GR	E	29.895 86	2.7	8805
748	Q	(0,	6	; 17)	GR	←	(0,	5	; 17)	GR	E	29.895 86	−4.2	8805
* 749	Q	(0,	6	; 23)	GR	←	(0,	5	; 23)	GR	E	29.897 91	−0.6	9026
* 750	Q	(0,	6	; 16)	GR	←	(0,	5	; 16)	GR	E	29.897 91	−1.6	9026



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 751	Q (0, 6 ; 15) GR	←	(0, 5 ; 15) GR	E	29.900 44	−0.2	8419
752	Q (0, 6 ; 24) GR	←	(0, 5 ; 24) GR	E	29.900 44	−10.2	8419
* 753	Q (0, 6 ; 14) GR	←	(0, 5 ; 14) GR	E	29.903 00	−0.5	7878
* 754	Q (0, 6 ; 13) GR	←	(0, 5 ; 13) GR	E	29.905 69	−0.4	8625
755	Q (0, 6 ; 25) GR	←	(0, 5 ; 25) GR	E	29.905 69	−5.2	8625
* 756	R (0, 2 ; 19) GR	←	(0, 2 ; 18) GR	E	29.908 03	2.4	9234
757	Q (0, 6 ; 12) GR	←	(0, 5 ; 12) GR	E	29.908 03	−6.7	9234
* 758	Q (0, 6 ; 11) GR	←	(0, 5 ; 11) GR	E	29.911 94	2.5	7176
* 759	R (0, 2 +; 19) GR	←	(0, 2 +; 18) GR	A	29.912 27	−0.6	4600
760	Q (0, 6 ; 26) GR	←	(0, 5 ; 26) GR	E	29.912 01	−3.7	8083
* 761	R (0, 3 ; 19) GR	←	(0, 3 ; 18) GR	E	29.914 16	2.0	6187
* 762	Q (0, 6 ; 10) GR	←	(0, 5 ; 10) GR	E	29.914 23	−2.5	7797
* 763	Q (0, 6 ; 9) GR	←	(0, 5 ; 9) GR	E	29.917 37	0.1	7293
* 764	Q (0, 6 ; 8) GR	←	(0, 5 ; 8) GR	E	29.919 98	−0.9	8035
* 765	Q (0, 6 ; 27) GR	←	(0, 5 ; 27) GR	E	29.919 98	−2.1	8035
* 766	Q (0, 6 ; 7) GR	←	(0, 5 ; 7) GR	E	29.922 36	−2.4	6338
* 767	Q (0, 6 ; 6) GR	←	(0, 5 ; 6) GR	E	29.924 76	−1.5	4970
* 768	Q (0, 6 ; 28) GR	←	(0, 5 ; 28) GR	E	29.929 36	−0.3	4974
* 769	Q (0, 6 ; 29) GR	←	(0, 5 ; 29) GR	E	29.940 44	−0.7	4679
* 770	Q (0, 6 ; 30) GR	←	(0, 5 ; 30) GR	E	29.953 74	−0.3	3644
* 771	Q (0, 6 ; 31) GR	←	(0, 5 ; 31) GR	E	29.968 74	−1.5	5003
772	Q (0, 6 ; 32) GR	←	(0, 5 ; 32) GR	E	29.985 84	−4.7	4736
* 773	R (0, −2 ; 10) GR	←	(0, −1 ; 9) GR	E	30.000 68	−0.9	6883
* 774	R (0, −2 ; 19) GR	←	(0, −2 ; 18) GR	E	30.000 71	−1.9	0
* 775	Q (0, 6 ; 33) GR	←	(0, 5 ; 33) GR	E	30.006 55	0.6	4742
* 776	R (0, −1 ; 22) GR	←	(0, 0 ; 21) GR	E	30.029 70	−1.8	7812
* 777	R (0, 1 −; 19) GR	←	(0, 1 −; 18) GR	A	30.082 23	−1.3	8634
778	P (1, 5 ; 9) GR	←	(1, 4 ; 10) GR	E	30.166 08	4.8	5110
* 779	P (0, 9 ; 23) GR	←	(0, 8 ; 24) GR	A	30.203 97	−0.9	2758
* 780	R (0, −4 ; 8) GR	←	(0, −3 ; 7) GR	E	30.245 93	−1.6	9220
* 781	R (0, 3 ; 8) GR	←	(0, 2 ; 7) GR	E	30.381 30	−2.3	9018
* 782	R (0, −3 ; 3) GR	←	(0, −2 ; 2) GR	E	30.395 63	−2.3	8358
* 783	R (0, 3 +; 14) GR	←	(0, 2 +; 13) GR	A	30.487 02	−1.7	8545
* 784	R (0, 3 −; 14) GR	←	(0, 2 −; 13) GR	A	30.586 45	−2.5	7885
* 785	P (0, 7 ; 11) GR	←	(0, 6 ; 12) GR	E	30.707 66	−1.2	3170
* 786	P (0, 5 ; 5) GR	←	(0, 4 ; 6) GR	A	30.721 31	0.7	3127
* 787	R (0, 1 +; 14) GR	←	(0, 0 +; 13) GR	A	30.802 96	−0.5	9850
* 788	R (0, 4 ; 6) GR	←	(0, 3 ; 5) GR	A	30.810 63	−1.6	5875
* 789	R (0, 2 +; 9) GR	←	(0, 1 +; 8) GR	A	30.820 55	−1.6	8059
* 790	P (0, −7 ; 11) GR	←	(0, −6 ; 12) GR	E	30.883 08	−1.3	3341
* 791	R (0, 2 ; 19) GR	←	(0, 1 ; 18) GR	E	30.994 15	−2.4	7092
792	P (1, −4 ; 16) GR	←	(1, −3 ; 17) GR	E	31.058 34	−6.1	3453
* 793	R (0, 1 +; 20) GR	←	(0, 1 +; 19) GR	A	31.141 01	−2.0	8532
* 794	R (1, 9 ; 19) GR	←	(1, 8 ; 18) GR	A	31.177 66	−1.9	4654
* 795	R (0, 0 ; 20) GR	←	(0, 0 ; 19) GR	E	31.203 86	−1.0	8427
* 796	P (0, 8 ; 17) GR	←	(0, 7 ; 18) GR	E	31.245 20	0.7	3552
* 797	R (1, 6 ; 20) GR	←	(1, 6 ; 19) GR	A	31.257 85	−0.3	5878
* 798	R (1, 3 ; 20) GR	←	(1, 3 ; 19) GR	E	31.259 88	−3.2	4752
* 799	P (0, 8 ; 13) GR	←	(0, 7 ; 14) GR	A	31.270 60	−3.3	3689
* 800	R (0, 1 ; 16) GR	←	(0, 0 ; 15) GR	E	31.288 99	−1.4	7710
801	R (1, 1 ; 24) GR	←	(1, 0 ; 23) GR	E	31.294 00	−6.1	4480
* 802	R (0, 2 −; 10) GR	←	(0, 1 −; 9) GR	A	31.297 35	−1.0	8789
* 803	R (2, 5 ; 20) GR	←	(2, 5 ; 19) GR	E	31.307 07	−0.1	4513
* 804	R (1, 1 +; 20) GR	←	(1, 1 +; 19) GR	A	31.309 26	0.5	7325
* 805	R (0, −1 ; 20) GR	←	(0, −1 ; 19) GR	E	31.311 92	−2.3	8370
* 806	R (2, −4 ; 20) GR	←	(2, −4 ; 19) GR	E	31.318 50	3.2	4816
* 807	R (1, −2 ; 20) GR	←	(1, −2 ; 19) GR	E	31.325 80	2.8	7556
* 808	R (2, 3 ; 20) GR	←	(2, 3 ; 19) GR	A	31.325 80	2.2	7556
809	R (2, 4 ; 20) GR	←	(2, 4 ; 19) GR	A	31.325 80	−4.9	7556
* 810	R (1, −6 ; 20) GR	←	(1, −6 ; 19) GR	E	31.335 54	−1.8	4129
* 811	R (1, 4 ; 20) GR	←	(1, 4 ; 19) GR	E	31.342 49	1.0	9124
* 812	R (1, 2 +; 20) GR	←	(1, 2 +; 19) GR	A	31.342 49	−1.7	9124
* 813	R (1, 5 ; 20) GR	←	(1, 5 ; 19) GR	A	31.342 49	−1.9	9124
* 814	R (1, 0 ; 20) GR	←	(1, 0 ; 19) GR	E	31.344 33	2.5	6584
815	R (1, −3 ; 20) GR	←	(1, −3 ; 19) GR	E	31.344 33	−6.4	6584
* 816	R (1, 1 ; 20) GR	←	(1, 1 ; 19) GR	E	31.345 99	−0.8	7227
817	R (1, 7 ; 20) GR	←	(1, 7 ; 19) GR	A	31.345 99	−7.1	7227
* 818	R (0, 0 +; 20) GR	←	(0, 0 +; 19) GR	A	31.349 57	0.2	9061
* 819	R (1, 2 −; 20) GR	←	(1, 2 −; 19) GR	A	31.349 57	−1.1	9061
* 820	R (1, 1 −; 20) GR	←	(1, 1 −; 19) GR	A	31.368 78	−0.4	5763
* 821	R (1, 2 ; 20) GR	←	(1, 2 ; 19) GR	E	31.372 61	2.9	8441
* 822	R (1, 3 ; 20) GR	←	(1, 3 ; 19) GR	A	31.372 61	0.5	8441
823	R (1, −1 ; 20) GR	←	(1, −1 ; 19) GR	E	31.372 61	−7.7	8441
* 824	R (1, 0 +; 20) GR	←	(1, 0 +; 19) GR	A	31.376 79	−1.2	5143
* 825	R (1, −4 ; 20) GR	←	(1, −4 ; 19) GR	E	31.384 35	0.7	6100

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 826	R (0, 12 ; 20) GR	←	(0, 12 ; 19) GR	A	31.388 22	−1.7	1354
827	R (0, 11 ; 20) GR	←	(0, 11 ; 19) GR	A	31.389 37	−3.8	5260
* 828	R (1, −5 ; 20) GR	←	(1, −5 ; 19) GR	E	31.394 52	2.6	4737
* 829	R (0, 2 −; 20) GR	←	(0, 2 −; 19) GR	A	31.397 83	−2.6	8053
* 830	R (0, 10 ; 20) GR	←	(0, 10 ; 19) GR	A	31.400 75	−3.9	5833
* 831	R (0, −10 ; 20) GR	←	(0, −10 ; 19) GR	E	31.407 14	−2.4	5102
* 832	R (0, −9 ; 20) GR	←	(0, −9 ; 19) GR	E	31.410 86	−0.7	4886
* 833	R (0, −8 ; 20) GR	←	(0, −8 ; 19) GR	E	31.413 45	1.8	7607
834	R (0, 9 ; 20) GR	←	(0, 9 ; 19) GR	A	31.413 45	−4.9	7607
* 835	R (0, 8 ; 20) GR	←	(0, 8 ; 19) GR	A	31.420 22	−1.5	9459
836	R (0, 7 ; 20) GR	←	(0, 7 ; 19) GR	A	31.420 22	−4.1	9459
* 837	R (0, −7 ; 20) GR	←	(0, −7 ; 19) GR	E	31.423 50	−1.7	5193
* 838	P (0, −11 ; 25) GR	←	(0, −10 ; 26) GR	E	31.426 39	1.4	7897
839	R (0, 6 ; 20) GR	←	(0, 6 ; 19) GR	A	31.426 39	−3.9	7897
* 840	R (0, 6 ; 20) GR	←	(0, 6 ; 19) GR	E	31.429 88	1.1	7989
* 841	R (0, 5 ; 20) GR	←	(0, 5 ; 19) GR	E	31.429 88	−2.6	7989
* 842	R (0, −6 ; 20) GR	←	(0, −6 ; 19) GR	E	31.435 53	3.0	8210
843	R (0, −4 ; 20) GR	←	(0, −4 ; 19) GR	E	31.435 53	−6.3	8210
* 844	R (0, 5 ; 20) GR	←	(0, 5 ; 19) GR	A	31.439 94	−1.4	3728
845	R (0, −5 ; 20) GR	←	(0, −5 ; 19) GR	E	31.442 45	5.2	6860
* 846	R (1, 4 ; 20) GR	←	(1, 4 ; 19) GR	A	31.442 38	−1.0	4199
* 847	R (0, 4 ; 20) GR	←	(0, 4 ; 19) GR	E	31.442 39	−2.6	6249
848	R (0, −3 ; 20) GR	←	(0, −3 ; 19) GR	E	31.442 45	−6.2	6860
849	R (1, 5 ; 20) GR	←	(1, 5 ; 19) GR	E	31.445 86	6.0	6447
* 850	R (0, 3 +; 20) GR	←	(0, 3 +; 19) GR	A	31.445 87	−3.1	4826
* 851	R (0, 4 −; 20) GR	←	(0, 4 −; 19) GR	A	31.458 64	0.6	4249
* 852	R (0, 4 +; 20) GR	←	(0, 4 +; 19) GR	A	31.459 73	0.5	3699
853	R (0, 3 −; 20) GR	←	(0, 3 −; 19) GR	A	31.459 01	−6.9	9501
* 854	R (0, 1 ; 20) GR	←	(0, 1 ; 19) GR	E	31.462 30	−0.5	7781
* 855	R (0, 2 ; 20) GR	←	(0, 2 ; 19) GR	E	31.469 64	−0.9	8052
* 856	R (0, 2 +; 20) GR	←	(0, 2 +; 19) GR	A	31.485 19	−0.5	7518
* 857	R (0, 3 ; 20) GR	←	(0, 3 ; 19) GR	E	31.487 83	−1.4	7945
858	Q (1, 6 ; 29) GR	←	(1, 5 ; 29) GR	A	31.553 81	−2.2	3025
* 859	R (0, −2 ; 20) GR	←	(0, −2 ; 19) GR	E	31.590 15	−1.0	7966
* 860	R (0, −2 ; 11) GR	←	(0, −1 ; 10) GR	E	31.612 18	−1.7	8455
* 861	R (0, 1 −; 20) GR	←	(0, 1 −; 19) GR	A	31.654 70	−0.5	7934
* 862	R (0, −1 ; 23) GR	←	(0, 0 ; 22) GR	E	31.696 22	−0.6	8432
* 863	P (1, 5 ; 8) GR	←	(1, 4 ; 9) GR	E	31.725 87	2.6	2935
* 864	Q (1, 6 ; 28) GR	←	(1, 5 ; 28) GR	A	31.748 53	−1.7	2044
* 865	P (0, 9 ; 22) GR	←	(0, 8 ; 23) GR	A	31.774 66	−3.0	3047
* 866	Q (0, 4 ; 34) GR	←	(0, 3 ; 34) GR	E	31.806 92	0.0	3203
* 867	R (0, −4 ; 9) GR	←	(0, −3 ; 8) GR	E	31.816 94	−0.8	9035
* 868	Q (1, 6 ; 27) GR	←	(1, 5 ; 27) GR	A	31.931 13	0.8	3412
* 869	P (1, 3 −; 22) GR	←	(1, 2 −; 23) GR	A	31.933 20	−2.1	3033
* 870	R (0, 3 ; 9) GR	←	(0, 2 ; 8) GR	E	31.950 03	−0.7	8437
* 871	R (0, −3 ; 4) GR	←	(0, −2 ; 3) GR	E	31.970 06	−1.2	8437
* 872	Q (0, 4 ; 33) GR	←	(0, 3 ; 33) GR	E	31.997 38	−0.3	2930
* 873	P (1, 2 ; 27) GR	←	(1, 1 ; 28) GR	E	32.043 20	3.4	8521
* 874	R (0, 3 +; 15) GR	←	(0, 2 +; 14) GR	A	32.043 20	−0.8	8521
* 875	R (1, −7 ; 7) GR	←	(1, −6 ; 6) GR	E	32.055 49	0.2	6212
* 876	Q (1, 6 ; 26) GR	←	(1, 5 ; 26) GR	A	32.100 67	−1.3	2541
877	Q (0, 4 ; 32) GR	←	(0, 3 ; 32) GR	E	32.176 61	6.1	8599
* 878	R (0, 3 −; 15) GR	←	(0, 2 −; 14) GR	A	32.176 61	−2.7	8599
* 879	R (0, 1 +; 15) GR	←	(0, 0 +; 14) GR	A	32.191 61	−0.8	9521
880	Q (1, 6 ; 25) GR	←	(1, 5 ; 25) GR	A	32.257 33	−5.2	3287
* 881	P (0, 7 ; 10) GR	←	(0, 6 ; 11) GR	E	32.280 95	0.2	3392
882	Q (0, 4 ; 31) GR	←	(0, 3 ; 31) GR	E	32.342 51	−4.1	4010
* 883	R (0, 4 ; 7) GR	←	(0, 3 ; 6) GR	A	32.383 65	−0.8	9891
* 884	Q (1, 6 ; 24) GR	←	(1, 5 ; 24) GR	A	32.402 07	0.2	3387
885	P (0, −7 ; 10) GR	←	(0, −6 ; 11) GR	E	32.457 26	−3.6	2942
* 886	Q (0, 4 ; 30) GR	←	(0, 3 ; 30) GR	E	32.497 51	−0.9	3914
* 887	R (0, 2 +; 10) GR	←	(0, 1 +; 9) GR	A	32.522 86	−0.9	8091
* 888	Q (1, 6 ; 23) GR	←	(1, 5 ; 23) GR	A	32.533 62	−1.4	3645
* 889	R (0, 2 ; 20) GR	←	(0, 1 ; 19) GR	E	32.570 27	−1.9	6954
* 890	P (1, −4 ; 15) GR	←	(1, −3 ; 16) GR	E	32.602 85	−2.5	3474
* 891	Q (0, 4 ; 29) GR	←	(0, 3 ; 29) GR	E	32.639 75	−2.2	4237
* 892	Q (1, 6 ; 22) GR	←	(1, 5 ; 22) GR	A	32.652 97	−0.8	4660
* 893	R (0, 1 +; 21) GR	←	(0, 1 +; 20) GR	A	32.689 54	−0.4	7935
* 894	R (0, 2 −; 11) GR	←	(0, 1 −; 10) GR	A	32.736 44	−1.7	8643
* 895	R (0, 0 ; 21) GR	←	(0, 0 ; 20) GR	E	32.744 74	−1.4	8968
* 896	Q (1, 6 ; 21) GR	←	(1, 5 ; 21) GR	A	32.760 05	−1.5	4300
* 897	R (1, 9 ; 20) GR	←	(1, 8 ; 19) GR	A	32.766 76	−1.2	4581
* 898	Q (0, 4 ; 28) GR	←	(0, 3 ; 28) GR	E	32.770 87	−0.6	4718
* 899	R (1, 6 ; 21) GR	←	(1, 6 ; 20) GR	A	32.807 04	−1.9	6159
* 900	R (1, 3 ; 21) GR	←	(1, 3 ; 20) GR	E	32.809 33	0.6	4382



Index	upper state T	(n, K ; J)	ν	←	lower state (n, K ; J)	ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
901	P	(0, 8 ; 16)	GR	←	(0, 7 ; 17)	GR	E	32.819 91	8.8	3039
* 902	P	(0, 8 ; 12)	GR	←	(0, 7 ; 13)	GR	A	32.843 18	−1.5	3968
903	R	(1, 1 ; 25)	GR	←	(1, 0 ; 24)	GR	E	32.855 29	9.4	5104
904	Q	(1, 6 ; 20)	GR	←	(1, 5 ; 20)	GR	A	32.855 29	−3.6	5104
* 905	R	(0, −1 ; 21)	GR	←	(0, −1 ; 20)	GR	E	32.860 30	−1.5	8149
* 906	R	(2, 5 ; 21)	GR	←	(2, 5 ; 20)	GR	E	32.867 17	1.1	6602
* 907	R	(1, 1 $^+$; 21)	GR	←	(1, 1 $^+$; 20)	GR	A	32.867 17	−0.3	6602
908	R	(2, −4 ; 21)	GR	←	(2, −4 ; 20)	GR	E	32.879 53	6.9	4281
* 909	R	(1, −2 ; 21)	GR	←	(1, −2 ; 20)	GR	E	32.882 90	2.5	5513
* 910	R	(2, 3 ; 21)	GR	←	(2, 3 ; 20)	GR	A	32.887 04	1.1	6877
* 911	R	(2, 4 ; 21)	GR	←	(2, 4 ; 20)	GR	A	32.887 04	−4.3	6877
* 912	Q	(0, 4 ; 27)	GR	←	(0, 3 ; 27)	GR	E	32.889 85	−1.2	7055
913	R	(1, −6 ; 21)	GR	←	(1, −6 ; 20)	GR	E	32.896 50	4.3	6286
* 914	R	(1, 2 $^+$; 21)	GR	←	(1, 2 $^+$; 20)	GR	A	32.902 38	−0.2	9030
* 915	R	(0, 0 $^+$; 21)	GR	←	(0, 0 $^+$; 20)	GR	A	32.902 38	−0.3	9030
* 916	R	(1, 5 ; 21)	GR	←	(1, 5 ; 20)	GR	A	32.902 38	−3.0	9030
* 917	R	(1, 4 ; 21)	GR	←	(1, 4 ; 20)	GR	E	32.902 42	−2.9	7858
* 918	R	(1, 0 ; 21)	GR	←	(1, 0 ; 20)	GR	E	32.903 92	−0.7	5543
* 919	R	(1, −3 ; 21)	GR	←	(1, −3 ; 20)	GR	E	32.905 94	2.7	7943
920	R	(1, 1 ; 21)	GR	←	(1, 1 ; 20)	GR	E	32.905 94	−5.4	7943
* 921	R	(1, 7 ; 21)	GR	←	(1, 7 ; 20)	GR	A	32.909 24	3.2	4272
922	R	(1, 2 $^-$; 21)	GR	←	(1, 2 $^-$; 20)	GR	A	32.910 42	−3.8	3698
* 923	R	(1, 1 $^-$; 21)	GR	←	(1, 1 $^-$; 20)	GR	A	32.929 49	−0.5	5984
924	R	(1, 2 ; 21)	GR	←	(1, 2 ; 20)	GR	E	32.937 23	3.8	9041
* 925	R	(1, 3 ; 21)	GR	←	(1, 3 ; 20)	GR	A	32.937 23	0.3	9041
926	R	(1, −1 ; 21)	GR	←	(1, −1 ; 20)	GR	E	32.937 23	−4.7	9041
* 927	Q	(1, 6 ; 19)	GR	←	(1, 5 ; 19)	GR	A	32.940 75	3.0	7039
928	R	(1, 0 $^+$; 21)	GR	←	(1, 0 $^+$; 20)	GR	A	32.940 75	−5.1	7039
* 929	R	(1, −4 ; 21)	GR	←	(1, −4 ; 20)	GR	E	32.950 98	−1.8	2513
930	R	(0, 12 ; 21)	GR	←	(0, 12 ; 20)	GR	A	32.952 63	4.5	4813
* 931	R	(0, 11 ; 21)	GR	←	(0, 11 ; 20)	GR	A	32.952 64	−1.2	4907
* 932	R	(0, 2 $^-$; 21)	GR	←	(0, 2 $^-$; 20)	GR	A	32.957 53	0.2	8685
* 933	R	(1, −5 ; 21)	GR	←	(1, −5 ; 20)	GR	E	32.962 61	0.5	4746
* 934	R	(0, 10 ; 21)	GR	←	(0, 10 ; 20)	GR	A	32.964 67	−0.4	1
* 935	R	(0, −10 ; 21)	GR	←	(0, −10 ; 20)	GR	E	32.972 27	−0.9	3648
* 936	R	(0, −9 ; 21)	GR	←	(0, −9 ; 20)	GR	E	32.975 81	−0.7	5121
* 937	R	(0, −8 ; 1)	GR	←	(0, −8 ; 20)	GR	E	32.977 65	−0.9	5244
* 938	R	(0, 9 ; 21)	GR	←	(0, 9 ; 20)	GR	A	32.979 52	−1.9	6883
* 939	R	(0, 7 ; 21)	GR	←	(0, 7 ; 20)	GR	A	32.985 76	−0.4	9020
940	R	(0, 8 ; 21)	GR	←	(0, 8 ; 20)	GR	A	32.985 76	−4.7	9020
941	R	(0, −7 ; 21)	GR	←	(0, −7 ; 20)	GR	E	32.988 43	−4.5	6033
* 942	R	(0, 6 ; 21)	GR	←	(0, 6 ; 20)	GR	A	32.991 77	−1.7	7910
943	R	(0, 7 ; 21)	GR	←	(0, 7 ; 20)	GR	E	32.995 46	6.2	8517
* 944	R	(0, 5 ; 21)	GR	←	(0, 5 ; 20)	GR	E	32.995 45	0.1	6293
945	R	(0, 6 ; 21)	GR	←	(0, 6 ; 20)	GR	E	32.995 46	−6.1	8517
* 946	Q	(0, 4 ; 26)	GR	←	(0, 3 ; 26)	GR	E	32.997 85	−1.1	6157
* 947	R	(0, −6 ; 21)	GR	←	(0, −6 ; 20)	GR	E	33.002 08	0.7	8739
* 948	R	(0, −4 ; 21)	GR	←	(0, −4 ; 20)	GR	E	33.002 08	−1.8	8739
949	P	(0, −11 ; 24)	GR	←	(0, −10 ; 25)	GR	E	33.006 88	5.8	8615
* 950	R	(0, 5 ; 21)	GR	←	(0, 5 ; 20)	GR	A	33.006 88	−0.6	8615
* 951	R	(0, −5 ; 21)	GR	←	(0, −5 ; 20)	GR	E	33.009 34	−1.7	6134
* 952	R	(0, 4 ; 21)	GR	←	(0, 4 ; 20)	GR	E	33.009 33	−2.8	5887
953	R	(0, −3 ; 21)	GR	←	(0, −3 ; 20)	GR	E	33.009 34	−4.3	6134
* 954	R	(0, 3 $^+$; 21)	GR	←	(0, 3 $^+$; 20)	GR	A	33.012 88	−0.9	7946
* 955	R	(0, 1 ; 17)	GR	←	(0, 0 ; 16)	GR	E	33.014 65	−1.2	7677
* 956	R	(1, 4 ; 21)	GR	←	(1, 4 ; 20)	GR	A	33.016 71	−1.7	6177
* 957	Q	(1, 6 ; 18)	GR	←	(1, 5 ; 18)	GR	A	33.019 68	2.0	6117
958	R	(1, 5 ; 21)	GR	←	(1, 5 ; 20)	GR	E	33.019 68	−4.9	6117
* 959	R	(0, 4 $^-$; 21)	GR	←	(0, 4 $^-$; 20)	GR	A	33.028 43	−0.8	5142
960	R	(0, 2 ; 21)	GR	←	(0, 2 ; 20)	GR	E	33.028 52	−6.4	5697
* 961	R	(0, 4 $^+$; 21)	GR	←	(0, 4 $^+$; 20)	GR	A	33.029 81	2.9	5922
* 962	R	(0, 1 ; 21)	GR	←	(0, 1 ; 20)	GR	E	33.029 96	−1.1	6424
963	R	(0, 3 $^-$; 21)	GR	←	(0, 3 $^-$; 20)	GR	A	33.029 81	−4.8	5922
* 964	R	(0, 2 $^+$; 21)	GR	←	(0, 2 $^+$; 20)	GR	A	33.057 65	−1.7	8133
* 965	R	(0, 3 ; 21)	GR	←	(0, 3 ; 20)	GR	E	33.061 94	−1.2	8416
* 966	Q	(1, 6 ; 17)	GR	←	(1, 5 ; 17)	GR	A	33.070 43	−0.7	5886
* 967	Q	(0, 4 ; 25)	GR	←	(0, 3 ; 25)	GR	E	33.095 02	−1.7	5594
* 968	Q	(1, 6 ; 16)	GR	←	(1, 5 ; 16)	GR	A	33.125 76	0.1	6753
* 969	R	(0, −5 ; 5)	GR	←	(0, −4 ; 4)	GR	E	33.149 18	−0.5	8888
* 970	Q	(1, 6 ; 15)	GR	←	(1, 5 ; 15)	GR	A	33.171 12	−0.3	6410
* 971	R	(0, −2 ; 21)	GR	←	(0, −2 ; 20)	GR	E	33.179 92	−1.0	8654
* 972	Q	(0, 4 ; 24)	GR	←	(0, 3 ; 24)	GR	E	33 182 14	−1.7	7010
* 973	Q	(1, 6 ; 14)	GR	←	(1, 5 ; 14)	GR	A	33.208 36	−0.6	7005
* 974	R	(0, 1 $^-$; 21)	GR	←	(0, 1 $^-$; 20)	GR	A	33.225 40	−1.4	7742
* 975	R	(0, −2 ; 12)	GR	←	(0, −1 ; 11)	GR	E	33.236 00	−0.7	8042
* 976	Q	(1, 6 ; 13)	GR	←	(1, 5 ; 13)	GR	A	33.238 35	−1.4	7103
* 977	Q	(0, 4 ; 23)	GR	←	(0, 3 ; 23)	GR	E	33.259 74	−0.4	6990
* 978	Q	(1, 6 ; 12)	GR	←	(1, 5 ; 12)	GR	A	33.262 33	−1.2	6893
* 979	Q	(1, 6 ; 11)	GR	←	(1, 5 ; 11)	GR	A	33.280 83	−0.5	6889
* 980	P	(1, 5 ; 7)	GR	←	(1, 4 ; 8)	GR	E	33.289 10	1.4	2848
* 981	Q	(1, 6 ; 10)	GR	←	(1, 5 ; 10)	GR	A	33.294 69	−1.8	6783
* 982	Q	(1, 6 ; 9)	GR	←	(1, 5 ; 9)	GR	A	33.305 00	−0.7	6236
* 983	Q	(1, 6 ; 8)	GR	←	(1, 5 ; 8)	GR	A	33.312 02	−0.5	6233
* 984	Q	(1, 6 ; 7)	GR	←	(1, 5 ; 7)	GR	A	33.316 70	−0.1	5154
* 985	Q	(1, 6 ; 6)	GR	←	(1, 5 ; 6)	GR	A	33.319 20	−1.4	4693
* 986	Q	(0, 4 ; 22)	GR	←	(0, 3 ; 22)	GR	E	33.328 26	−0.7	6932
* 987	P	(0, 9 ; 21)	GR	←	(0, 8 ; 22)	GR	A	33.345 86	−1.6	2761
* 988	R	(0, −1 ; 24)	GR	←	(0, 0 ; 23)	GR	E	33.366 04	−0.7	7446
* 989	R	(0, −4 ; 10)	GR	←	(0, −3 ; 9)	GR	E	33.386 91	−3.1	5830
* 990	Q	(0, 4 ; 21)	GR	←	(0, 3 ; 21)	GR	E	33.388 35	−1.5	5351
* 991	Q	(0, 4 ; 20)	GR	←	(0, 3 ; 20)	GR	E	33.440 82	−1.4	7844
992	P	(1, 3 ; 21)	GR	←	(1, 2 $^-$; 22)	GR	A	33.461 92	4.9	3381
* 993	Q	(0, 4 ; 19)	GR	←	(0, 3 ; 19)	GR	E	33.486 12	−1.6	7743
* 994	R	(0, 3 ; 10)	GR	←	(0, 2 ; 9)	GR	E	33.516 65	−1.0	9058
* 995	Q	(0, 4 ; 18)	GR	←	(0, 3 ; 18)	GR	E	33.525 10	−0.9	8424
996	P	(1, 2 ; 26)	GR	←	(1, 1 ; 27)	GR	E	33.530 66	−2.6	2114
* 997	R	(0, −3 ; 5)	GR	←	(0, −2 ; 4)	GR	E	33.543 71	−1.2	8453
* 998	Q	(0, 4 ; 17)	GR	←	(0, 3 ; 17)	GR	E	33.558 19	−0.8	8414
* 999	R	(0, 1 $^+$; 16)	GR	←	(0, 0 $^+$; 15)	GR	A	33.570 55	−0.6	9767
* 1000	Q	(0, 4 ; 16)	GR	←	(0, 3 ; 16)	GR	E	33.585 91	−0.4	8855
* 1001	R	(0, 3 $^+$; 16)	GR	←	(0, 2 $^+$; 15)	GR	A	33.595 86	0.4	8779
* 1002	Q	(0, 4 ; 15)	GR	←	(0, 3 ; 15)	GR	E	33.608 98	−0.8	9000
* 1003	P	(0, 11 ; 19)	GR	←	(0, 10 ; 20)	GR	A	33.614 52	−3.6	2793
* 1004	R	(1, −7 ; 8)	GR	←	(1, −6 ; 7)	GR	E	33.622 50	−0.3	7354
* 1005	Q	(0, 4 ; 14)	GR	←	(0, 3 ; 14)	GR	E	33.627 88	−1.3	9548
* 1006	Q	(0, 4 ; 13)	GR	←	(0, 3 ; 13)	GR	E	33.643 13	−1.9	8971
* 1007	Q	(0, 4 ; 12)	GR	←	(0, 3 ; 12)	GR	E	33.655 28	−1.1	8852
* 1008	Q	(0, 4 ; 11)	GR	←	(0, 3 ; 11)	GR	E	33.664 68	−0.4	8978
* 1009	Q	(0, 4 ; 10)	GR	←	(0, 3 ; 10)	GR	E	33.671 80	−0.6	9103
* 1010	Q	(0, 4 ; 9)	GR	←	(0, 3 ; 9)	GR	E	33.677 03	−1.0	8996
* 1011	Q	(0, 4 ; 8)	GR	←	(0, 3 ; 8)	GR	E	33.680 79	−0.4	8913
* 1012	Q	(0, 4 ; 7)	GR	←	(0, 3 ; 7)	GR	E	33.683 22	−0.7	8579
1013	Q	(0, 4 ; 6)	GR	←	(0, 3 ; 6)	GR	E	33.685 48	6.4	9315
* 1014	Q	(0, 4 ; 5)	GR	←	(0, 3 ; 5)	GR	E	33.685 48	−2.1	9315
1015	Q	(0, 4 ; 4)	GR	←	(0, 3 ; 4)	GR	E	33.685 48	−6.1	9315
* 1016	R	(0, 3 $^-$; 16)	GR	←	(0, 2 $^-$; 15)	GR	A	33.771 52	−1.0	7618
* 1017	P	(0, 7 ; 9)	GR	←	(0, 6 ; 10)	GR	E	33.854 24	−2.2	2878
* 1018	R	(0, 4 ; 8)	GR	←	(0, 3 ; 7)	GR	A	33.956 39	−1.1	5193
* 1019	P	(0, −7 ; 9)	GR	←	(0, −6 ; 10)	GR	E	34.031 91	2.0	2492
* 1020	R	(0, 2 ; 21)	GR	←	(0, 1 ; 20)	GR	E	34.137 15	−1.2	7146
* 1021	P	(1, −4 ; 14)	GR	←	(1, −3 ; 15)	GR	E	34.151 63	−1.9	3698
* 1022	R	(0, 2 $^-$; 12)	GR	←	(0, 1 $^-$; 11)	GR	A	34.161 70	−1.0	8645
* 1023	P	(1, 4 ; 15)	GR	←	(1, 3 ; 16)	GR	A	34.197 83	1.1	3052
* 1024	R	(0, 1 $^+$; 22)	GR	←	(0, 1 $^+$; 21)	GR	A	34.236 60	−1.4	7674
* 1025	R	(0, 2 $^+$; 11)	GR	←	(0, 1 $^+$; 10)	GR	A	34.241 19	−1.6	8522
* 1026	R	(0, 0 ; 22)	GR	←	(0, 0 ; 21)	GR	E	34.284 56	−0.7	7991
* 1027	R	(1, 9 ; 21)	GR	←	(1, 8 ; 20)	GR	A	34.354 87	1.7	7563
* 1028	R	(1, 6 ; 22)	GR	←	(1, 6 ; 21)	GR	A	34.354 87	−2.2	7563
* 1029	R	(1, 3 ; 22)	GR	←	(1, 3 ; 21)	GR	E	34.356 87	−0.7	5427
* 1030	P	(0, 8 ; 15)	GR	←	(0, 7 ; 16)	GR	E	34.392 74	−1.1	2874
* 1031	R	(0, −1 ; 22)	GR	←	(0, −1 ; 21)	GR	E	34.406 64	−0.4	8362
* 1032	R	(1, 1 ; 26)	GR	←	(1, 0 ; 25)	GR	E	34.413 60	−0.7	4062
* 1033	P	(0, 8 ; 11)	GR	←	(0, 7 ; 12)	GR	A	34.415 87	−3.3	4970
* 1034	R	(1, 1 $^+$; 22)	GR	←	(1, 1 $^+$; 21)	GR	A	34.423 81	0.4	6636
1035	R	(2, 5 ; 22)	GR	←	(2, 5 ; 21)	GR	E	34.427 09	8.5	4645
* 1036	R	(1, −2 ; 22)	GR	←	(1, −2 ; 21)	GR	E	34.438 77	0.4	5954
* 1037	R	(2, −4 ; 22)	GR	←	(2, −4 ; 21)	GR	E	34.438 77	−1.1	5954
* 1038	R	(2, 3 ; 22)	GR	←	(2, 3 ; 21)	GR	A	34.447 45	0.6	6969
1039	R	(2, 4 ; 22)	GR	←	(2, 4 ; 21)	GR	A	34.447 45	−5.2	6969
* 1040	R	(0, 0 $^+$; 22)	GR	←	(0, 0 $^+$; 21)	GR	A	34.453 02	−1.9	8777
* 1041	R	(1, −6 ; 22)	GR	←	(1, −6 ; 21)	GR	E	34.455 30	−0.6	5808
1042	R	(1, 2 $^+$; 22)	GR	←	(1, 2 $^+$; 21)	GR	A	34.462 18	5.8	9243
* 1043	R	(1, 5 ; 22)	GR	←	(1, 5 ; 21)	GR	A	34.462 18	−0.7	9243
* 1044	R	(1, 4 ; 22)	GR	←	(1, 4 ; 21)	GR	E	34.462 18	−1.5	9243
1045	R	(1, 0 ; 22)	GR	←	(1, 0 ; 21)	GR	E	34.462 18	−8.0	9243
* 1046	R	(1, −3 ; 22)	GR	←	(1, −3 ; 21)	GR	E	34.465 37	2.0	7384
1047	R	(1, 1 ; 22)	GR	←	(1, 1 ; 21)	GR	E	34.465 37	−4.0	7384
* 1048	R	(1, 7 ; 22)	GR	←	(1, 7 ; 21)	GR	A	34.470 66	3.2	7153
* 1049	R	(1, 2 $^-$; 22)	GR	←	(1, 2 $^-$; 21)	GR	A	34.470 66	−2.5	7153
* 1050	R	(1, 1 $^-$; 22)	GR	←	(1, 1 $^-$; 21)	GR	A	34.489 02	−1.1	6127



Index	upper state					lower state					σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
	T	$(n,$	K	; $J)$ v		$(n,$	K	; $J)$ v						
* 1051	R	(1,	2	; 22) GR	←	(1,	2	; 21) GR		E	34.501 13	3.5	8255
1052	R	(1,	3 +	; 22) GR	←	(1,	3	; 21) GR		A	34.501 13	3.5	8255
* 1053	R	(1,	−1	; 22) GR	←	(1,	−1	; 21) GR		E	34.501 13	−2.1	8255
1054	R	(1,	3 −	; 22) GR	←	(1,	3	; 21) GR		A	34.501 13	−10.9	8255
* 1055	R	(1,	0 +	; 22) GR	←	(1,	0 +	; 21) GR		A	34.505 00	−1.3	4405
1056	R	(0,	11	; 22) GR	←	(0,	11	; 21) GR		A	34.515 41	4.9	8361
* 1057	R	(0,	12	; 22) GR	←	(0,	12	; 21) GR		A	34.515 41	2.5	8361
* 1058	R	(0,	2 −	; 22) GR	←	(0,	2 −	; 21) GR		A	34.515 41	−3.1	8361
* 1059	R	(1,	−4	; 22) GR	←	(1,	−4	; 21) GR		E	34.517 43	−1.7	6234
* 1060	R	(0,	10	; 22) GR	←	(0,	10	; 21) GR		A	34.527 62	0.3	6868
* 1061	R	(1,	−5	; 22) GR	←	(1,	−5	; 21) GR		E	34.530 15	−2.6	4341
* 1062	R	(0,	−10	; 22) GR	←	(0,	−10	; 21) GR		E	34.536 09	−0.7	4563
* 1063600	R	(0,	−9	; 22) GR	←	(0,	−9	; 21) GR		E	34.539 81	−2.1	4825
* 1064	R	(0,	−8	; 22) GR	←	(0,	−8	; 21) GR		E	34.541 15	−1.4	5123
* 1065	R	(0,	9	; 22) GR	←	(0,	9	; 21) GR		A	34.544 02	−1.5	5862
* 1066	R	(0,	7	; 22) GR	←	(0,	7	; 21) GR		A	34.550 43	2.3	8188
1067	R	(0,	8	; 22) GR	←	(0,	8	; 21) GR		A	34.550 43	−6.3	8188
* 1068	R	(0,	−7	; 22) GR	←	(0,	−7	; 21) GR		E	34.552 97	−1.5	6209
* 1069	R	(0,	6	; 22) GR	←	(0,	6	; 21) GR		A	34.556 12	−0.7	8496
* 1070	R	(0,	5	; 22) GR	←	(0,	5	; 21) GR		E	34.560 18	1.2	8246
1071	R	(0,	7	; 22) GR	←	(0,	7	; 21) GR		E	34.559 90	−6.3	6028
* 1072	R	(0,	6	; 22) GR	←	(0,	6	; 21) GR		E	34.561 25	−2.3	5194
* 1073	R	(0,	−4	; 22) GR	←	(0,	−4	; 21) GR		E	34.567 72	0.7	8773
* 1074	R	(0,	−6	; 22) GR	←	(0,	−6	; 21) GR		E	34.567 72	−2.8	8773
* 1075	R	(0,	5	; 22) GR	←	(0,	5	; 21) GR		A	34.573 26	−0.3	8736
* 1076	R	(0,	−3	; 22) GR	←	(0,	−3	; 21) GR		E	34.575 71	−0.1	9746
* 1077	R	(0,	4	; 22) GR	←	(0,	4	; 21) GR		E	34.575 71	−0.8	9746
1078	R	(0,	−5	; 22) GR	←	(0,	−5	; 21) GR		E	34.575 71	−9.0	9746
* 1079	R	(0,	3 +	; 22) GR	←	(0,	3 +	; 21) GR		A	34.578 82	−0.8	8451
1080	P	(0,	−11	; 23) GR	←	(0,	−10	; 24) GR		E	34.586 13	5.0	8409
* 1081	R	(0,	2	; 22) GR	←	(0,	2	; 21) GR		E	34.586 13	−0.4	8409
* 1082	R	(1,	4	; 22) GR	←	(1,	4	; 21) GR		A	34.590 89	−0.7	6397
* 1083	R	(1,	5	; 22) GR	←	(1,	5	; 21) GR		E	34.594 71	−1.1	5126
* 1084	R	(0,	1	; 22) GR	←	(0,	1	; 21) GR		E	34.596 56	0.6	8190
1085	R	(0,	4 −	; 22) GR	←	(0,	4 −	; 21) GR		A	34.598 47	5.7	7815
1086	R	(0,	4 +	; 22) GR	←	(0,	4 +	; 21) GR		A	34.598 47	−6.9	7815
* 1087	R	(0,	3 −	; 22) GR	←	(0,	3 −	; 21) GR		A	34.600 31	−2.2	7515
* 1088	R	(0,	2 +	; 22) GR	←	(0,	2 +	; 21) GR		A	34.629 66	−0.4	8179
* 1089	R	(0,	3	; 22) GR	←	(0,	3	; 21) GR		E	34.635 87	−0.9	7323
* 1090	R	(0,	−5	; 6) GR	←	(0,	−4	; 5) GR		E	34.721 50	−0.9	7407
* 1091	R	(0,	1	; 18) GR	←	(0,	0	; 17) GR		E	34.764 33	−1.2	7851
* 1092	R	(0,	−2	; 22) GR	←	(0,	−2	; 21) GR		E	34.769 77	−0.7	8646
* 1093	R	(0,	1 −	; 22) GR	←	(0,	1 −	; 21) GR		A	34.794 12	−0.3	8743
* 1094	P	(0,	10	; 16) GR	←	(0,	9	; 17) GR		A	34.843 38	−1.4	2539
* 1095	P	(1,	5	; 6) GR	←	(1,	4	; 7) GR		E	34.855 08	1.9	2112
* 1096	R	(0,	−2	; 13) GR	←	(0,	−1	; 12) GR		E	34.874 33	−0.5	8126
* 1097	P	(0,	9	; 20) GR	←	(0,	8	; 21) GR		A	34.917 31	−0.7	3230
* 1098	R	(0,	1 +	; 17) GR	←	(0,	0 +	; 16) GR		A	34.940 38	−1.2	9565
* 1099	R	(0,	−4	; 11) GR	←	(0,	−3	; 10) GR		E	34.956 68	−1.3	8975
* 1100	P	(1,	3	; 20) GR	←	(1,	2 −	; 21) GR		A	34.995 28	1.3	3767
* 1101	P	(1,	2	; 25) GR	←	(1,	1	; 26) GR		E	35.027 21	−0.7	2589
* 1102	R	(0,	−1	; 25) GR	←	(0,	0	; 24) GR		E	35.038 24	−0.9	7871
* 434103	R	(0,	3	; 11) GR	←	(0,	2	; 10) GR		E	35.081 10	−0.9	9052
* 1104	R	(0,	−3	; 6) GR	←	(0,	−2	; 5) GR		E	35.116 30	−1.2	9209
* 1105	R	(0,	3 +	; 17) GR	←	(0,	2 +	; 16) GR		A	35.144 41	−0.1	7450
* 1106	R	(1,	−7	; 9) GR	←	(1,	−6	; 8) GR		E	35.188 15	−0.8	7015
* 1107	P	(0,	11	; 18) GR	←	(0,	10	; 19) GR		A	35.190 22	−0.4	3111
* 1108	R	(0,	3 −	; 17) GR	←	(0,	2 −	; 16) GR		A	35.371 88	−1.4	7801
* 1109	P	(0,	7	; 8) GR	←	(0,	6	; 9) GR		E	35.428 05	−1.8	2584
* 1110	P	(0,	−10	; 24) GR	←	(0,	−9	; 25) GR		E	35.498 86	−1.3	2912
* 1111	R	(0,	4	; 9) GR	←	(0,	3	; 8) GR		A	35.529 03	−0.6	6262
* 1112	Q	(0,	7	; 36) GR	←	(0,	6	; 36) GR		A	35.556 69	−0.8	4339
* 1113	Q	(0,	7	; 35) GR	←	(0,	6	; 35) GR		A	35.556 69	−1.9	4339
* 1114	Q	(0,	7	; 37) GR	←	(0,	6	; 37) GR		A	35.556 69	−2.4	4339
* 1115	Q	(0,	7	; 34) GR	←	(0,	6	; 34) GR		A	35.558 47	0.7	3777
* 1116	Q	(0,	7	; 38) GR	←	(0,	6	; 38) GR		A	35.558 47	−0.7	3777
* 1117	Q	(0,	7	; 33) GR	←	(0,	6	; 33) GR		A	35.560 39	0.2	4202
* 1118	Q	(0,	7	; 39) GR	←	(0,	6	; 39) GR		A	35.560 39	−3.9	4202
* 1119	Q	(0,	7	; 40) GR	←	(0,	6	; 40) GR		A	35.562 73	0.0	4016
* 1120	Q	(0,	7	; 32) GR	←	(0,	6	; 32) GR		A	35.562 73	−2.1	4016
* 1121	Q	(0,	7	; 31) GR	←	(0,	6	; 31) GR		A	35.566 19	−1.8	4351
* 1122	Q	(0,	7	; 30) GR	←	(0,	6	; 30) GR		A	35.570 01	−1.2	5387
* 1123	R	(0,	2 −	; 13) GR	←	(0,	1 −	; 12) GR		A	35.572 72	−2.4	8365
1124	Q	(0,	7	; 29) GR	←	(0,	6	; 29) GR		A	35.574 08	−3.6	2526
* 1125	Q	(0,	7	; 28) GR	←	(0,	6	; 28) GR		A	35.578 83	−2.4	5769

Index	upper state					lower state					σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
	T	$(n,$	K	; $J)$ v		$(n,$	K	; $J)$ v						
* 1126	Q	(0,	7	; 27) GR	←	(0,	6	; 27) GR		A	35.583 98	−0.9	6297
* 1127	Q	(0,	7	; 26) GR	←	(0,	6	; 26) GR		A	35.589 32	−1.5	6744
* 1128	Q	(0,	7	; 25) GR	←	(0,	6	; 25) GR		A	35.594 93	−0.2	7009
* 1129	Q	(0,	7	; 24) GR	←	(0,	6	; 24) GR		A	35.600 77	−0.8	7526
1130	P	(0,	−7	; 8) GR	←	(0,	−6	; 9) GR		E	35.606 62	8.0	7818
* 1131	Q	(0,	7	; 23) GR	←	(0,	6	; 23) GR		A	35.606 62	−0.6	7818
* 1132	Q	(0,	7	; 22) GR	←	(0,	6	; 22) GR		A	35.612 68	−1.6	7899
* 1133	Q	(0,	7	; 21) GR	←	(0,	6	; 21) GR		A	35.618 77	−0.5	8159
* 1134	Q	(0,	7	; 20) GR	←	(0,	6	; 20) GR		A	35.624 86	−0 9	8657
* 1135	Q	(0,	7	; 19) GR	←	(0,	6	; 19) GR		A	35.630 96	−1.5	8437
* 1136	Q	(0,	7	; 18) GR	←	(0,	6	; 18) GR		A	35.637 00	−1.2	8863
* 1137	Q	(0,	7	; 17) GR	←	(0,	6	; 17) GR		A	35.642 78	−1.2	9219
* 1138	Q	(0,	7	; 16) GR	←	(0,	6	; 16) GR		A	35.648 60	−0.2	9384
* 1139	Q	(0,	7	; 15) GR	←	(0,	6	; 15) GR		A	35.654 20	−1.1	9357
* 1140	Q	(0,	7	; 14) GR	←	(0,	6	; 14) GR		A	35.659 56	−1.4	9258
* 1141	Q	(0,	7	; 13) GR	←	(0,	6	; 13) GR		A	35.664 75	−0.9	9246
* 1142	Q	(0,	7	; 12) GR	←	(0,	6	; 12) GR		A	35.669 65	−0.8	9017
* 1143	Q	(0,	7	; 11) GR	←	(0,	6	; 11) GR		A	35.674 28	−0.1	9381
* 1144	Q	(0,	7	; 10) GR	←	(0,	6	; 10) GR		A	35.678 57	−1.0	9501
* 1145	Q	(0,	7	; 9) GR	←	(0,	6	; 9) GR		A	35.682 57	−0.7	9112
* 1146	Q	(0,	7	; 8) GR	←	(0,	6	; 8) GR		A	35.686 23	−0.7	8365
* 1147	Q	(0,	7	; 7) GR	←	(0,	6	; 7) GR		A	35.689 55	−1.3	6887
* 1148	R	(0,	2	; 22) GR	←	(0,	1	; 21) GR		E	35.693 29	−0.8	7087
* 1149	P	(1,	−4	; 13) GR	←	(1,	−3	; 14) GR		E	35.704 29	−0.8	3776
* 1150	P	(1,	4	; 14) GR	←	(1,	3	; 15) GR		A	35.734 97	−0.4	3348
* 1151	R	(0,	1 +	; 23) GR	←	(0,	1 +	; 22) GR		A	35.782 62	−1.5	8210
* 1152	R	(0,	0	; 23) GR	←	(0,	0	; 22) GR		E	35.823 44	−1.0	7694
* 1153	R	(1,	6	; 23) GR	←	(1,	6	; 22) GR		A	35.901 62	−0.5	5577
* 1154	R	(1,	3	; 23) GR	←	(1,	3	; 22) GR		E	35.903 33	0.2	4559
* 1155	R	(0,	5	; 5) GR	←	(0,	4	; 4) GR		E	35.908 83	−2.1	8959
* 1156	R	(1,	9	; 22) GR	←	(1,	8	; 21) GR		A	35.941 29	−0.6	4318
* 1157	R	(0,	−1	; 23) GR	←	(0,	−1	; 22) GR		E	35.950 87	−1.5	7850
* 1158	P	(0,	8	; 14) GR	←	(0,	7	; 15) GR		E	35.966 30	−0.8	3531
* 1159	R	(1,	1	; 27) GR	←	(1,	0	; 26) GR		E	35.972 13	−1.2	4106
* 1160	R	(0,	2 +	; 12) GR	←	(0,	1 +	; 11) GR		A	35.976 24	−1.5	8831
* 1161	R	(1,	1 +	; 23) GR	←	(1,	1 +	; 22) GR		A	35.979 73	1.1	6221
* 1162	R	(2,	5	; 23) GR	←	(2,	5	; 22) GR		E	35.984 98	2.3	5274
1163	P	(0,	8	; 10) GR	←	(0,	7	; 11) GR		A	35.990 12	4.5	3569
* 1164	R	(1,	−2	; 23) GR	←	(1,	−2	; 22) GR		E	35.993 46	0.0	5345
* 1165	R	(2,	−4	; 23) GR	←	(2,	−4	; 22) GR		E	35.998 26	−0.1	3449
* 1166	R	(0,	0 +	; 23) GR	←	(0,	0 +	; 22) GR		A	36.001 89	−1.2	9042
* 1167	R	(2,	3	; 23) GR	←	(2,	3	; 22) GR		A	36.006 99	−0.7	6839
1168	R	(2,	4	; 23) GR	←	(2,	4	; 22) GR		A	36.006 99	−4.7	6839
* 1169	R	(1,	−6	; 23) GR	←	(1,	−6	; 2) GR		E	36.013 72	−1.0	2470
* 1170	R	(1,	2 +	; 23) GR	←	(1,	2 +	; 22) GR		A	36.019 05	−2.6	6478
* 1171	R	(1,	4	; 23) GR	←	(1,	4	; 22) GR		E	36.020 84	0.0	8539
* 1172	R	(1,	0	; 23) GR	←	(1,	0	; 22) GR		E	36.020 84	−0.1	8539
* 1173	R	(1,	5	; 23) GR	←	(1,	5	; 22) GR		A	36.020 84	−1.1	8539
* 1174	R	(1,	−3	; 23) GR	←	(1,	−3	; 22) GR		E	36.023 88	1.4	7256
* 1175	R	(1,	1	; 23) GR	←	(1,	1	; 22) GR		E	36.023 88	−1.6	7256
* 1176	R	(1,	2 −	; 23) GR	←	(1,	2 −	; 22) GR		A	36.030 27	0.2	6287
1177	R	(1,	7	; 23) GR	←	(1,	7	; 22) GR		A	36.030 27	−5.7	6287
* 1178	R	(1,	1 −	; 23) GR	←	(1,	1 −	; 22) GR		A	36.047 44	1.5	5316
1179	R	(1,	2	; 23) GR	←	(1,	2	; 22) GR		E	36.064 43	4.5	7952
* 1180	R	(1,	−1	; 23) GR	←	(1,	−1	; 22) GR		E	36.064 43	1.4	7952
1181	R	(1,	3 +	; 23) GR	←	(1,	3 +	; 22) GR		A	36.064 43	−4 7	7952
1182	R	(1,	3 −	; 23) GR	←	(1,	3 −	; 22) GR		A	36.064 43	−8.8	7952
* 1183	R	(1,	0 +	; 23) GR	←	(1,	0 +	; 22) GR		A	36.068 09	−0.4	5482
* 1184	R	(0,	2 −	; 23) GR	←	(0,	2 −	; 22) GR		A	36.072 06	−0.3	8077
* 1185	R	(0,	11	; 23) GR	←	(0,	11	; 22) GR		A	36.076 08	1.5	4710
* 1186	R	(1,	−4	; 23) GR	←	(1,	−4	; 22) GR		E	36.083 67	−0.1	5513
* 1187	R	(0,	10	; 23) GR	←	(0,	10	; 22) GR		A	36.089 32	−0.8	6506
* 1188	R	(1,	−5	; 23) GR	←	(1,	−5	; 22) GR		E	36.097 93	−0.9	3668
* 1189	R	(0,	−10	; 23) GR	←	(0,	−10	; 22) GR		E	36.099 45	−0.1	3754
* 1190	R	(0,	−9	; 23) GR	←	(0,	−9	; 22) GR		E	36.103 59	0.7	6315
* 1191	R	(0,	−8	; 23) GR	←	(0,	−8	; 22) GR		E	36.103 59	−1.4	6315
* 1192	R	(0,	9	; 23) GR	←	(0,	9	; 22) GR		A	36.107 55	−1.5	6557
* 1193	R	(0,	7	; 23) GR	←	(0,	7	; 22) GR		A	36.113 20	−2.5	8043
* 1194	R	(0,	8	; 23) GR	←	(0,	8	; 22) GR		A	36.115 37	1.5	6934
* 1195	R	(0,	−7	; 23) GR	←	(0,	−7	; 22) GR		E	36.116 45	−0.8	2208
* 1196	R	(0,	6	; 23) GR	←	(0,	6	; 22) GR		A	36.119 50	−1.0	7624
* 1197	R	(0,	5	; 23) GR	←	(0,	5	; 22) GR		E	36.123 55	−1.1	6956
* 1198	R	(0,	7	; 23) GR	←	(0,	7	; 22) GR		E	36.125 59	1.7	7848
1199	R	(0,	6	; 23) GR	←	(0,	6	; 22) GR		E	36.125 59	−4.3	7848
* 1200	R	(0,	−4	; 23) GR	←	(0,	−4	; 22) GR		E	36.131 91	−1.7	7281



Index	T	upper state (n, K ; J) v		lower state (n, K ; J) v		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 1201	R	(0, −6 ; 23)	GR	(0, −6 ; 22)	GR	E	36.133 09	−2.8	6454
* 1202	R	(0, 5 ; 23)	GR	(0, 5 ; 22)	GR	A	36.138 74	−0.7	8636
* 1203	R	(0, −3 ; 23)	GR	(0, −3 ; 22)	GR	E	36.140 86	1.2	6224
* 1204	R	(0, 2 ; 23)	GR	(0, 2 ; 22)	GR	E	36.140 86	−2.0	6224
* 1205	R	(0, 4 ; 23)	GR	(0, 4 ; 22)	GR	E	36.140 86	−3.0	6224
1206	R	(0, −5 ; 23)	GR	(0, −5 ; 22)	GR	E	36.143 38	4.3	8442
* 1207	R	(0, 3 +; 23)	GR	(0, 3 +; 22)	GR	A	36.143 38	−3.5	8442
* 1208	R	(0, 1 ; 23)	GR	(0, 1 ; 22)	GR	E	36.161 43	−0.6	7975
* 1209	P	(0, −11 ; 22)	GR	(0, −10 ; 23)	GR	E	36.164 53	1.6	6758
* 1210	R	(1, 4 ; 23)	GR	(1, 4 ; 22)	GR	A	36.164 53	−2.3	6758
* 1211	R	(0, 4 −; 23)	GR	(0, 4 −; 22)	GR	A	36.166 66	−0.3	7631
* 1212	R	(0, 4 +; 23)	GR	(0, 4 +; 22)	GR	A	36.168 62	1.3	8290
1213	R	(1, 5 ; 23)	GR	(1, 5 ; 22)	GR	E	36.168 62	−4.3	8290
* 1214	R	(0, 3 −; 23)	GR	(0, 3 −; 22)	GR	A	36.170 72	−2.5	7936
* 1215	R	(0, 2 +; 23)	GR	(0, 2 +; 22)	GR	A	36.201 03	−1.8	7968
* 1216	R	(0, 3 ; 23)	GR	(0, 3 ; 22)	GR	E	36.209 54	−1.7	7771
* 1217	R	(0, −5 ; 7)	GR	(0, −4 ; 6)	GR	E	36.293 52	−1.0	9306
* 1218	R	(0, 1 +; 18)	GR	(0, 0 +; 17)	GR	A	36.301 68	−0.9	9725
* 1219	R	(0, −2 ; 23)	GR	(0, −2 ; 22)	GR	E	36.359 01	−1.3	8333
* 1220	R	(0, 1 −; 23)	GR	(0, 1 −; 22)	GR	A	36.360 82	−0.4	7871
1221	P	(0, 10 ; 15)	GR	(0, 9 ; 16)	GR	A	36.418 91	−1.0	2713
* 1222	P	(0, 9 ; 19)	GR	(0, 8 ; 20)	GR	A	36.489 48	−1.8	3753
* 1223	R	(0, −4 ; 12)	GR	(0, −3 ; 11)	GR	E	36.525 50	−1.3	9354
* 1224	R	(0, −2 ; 14)	GR	(0, −1 ; 13)	GR	E	36.530 12	0.2	7536
1225	P	(1, 2 ; 24)	GR	(1, 1 ; 25)	GR	E	36.530 73	−5.0	1915
* 1226	P	(1, 3 ; 19)	GR	(1, 2 −; 20)	GR	A	36.533 55	1.6	4162
* 1227	R	(0, 1 ; 19)	GR	(0, 0 ; 18)	GR	E	36.539 07	−1.6	7438
1228	P	(1, 3 ; 19)	GR	(1, 2 +; 20)	GR	A	36.572 18	−3.7	4087
* 1229	P	(1, −1 ; 26)	GR	(1, 0 ; 27)	GR	E	36.590 05	0.0	3138
* 1230	R	(0, 3 ; 12)	GR	(0, 2 ; 11)	GR	E	36.643 27	−1.1	9541
* 1231	R	(0, −3 ; 7)	GR	(0, −2 ; 6)	GR	E	36.687 27	−1.6	6332
* 1232	R	(0, 3 +; 18)	GR	(0, 2 +; 17)	GR	A	36.688 70	−0.8	4294
* 1233	R	(0, −1 ; 26)	GR	(0, 0 ; 25)	GR	E	36.711 84	−0.5	8192
* 1234	R	(1, −7 ; 10)	GR	(1, −6 ; 9)	GR	E	36.752 25	−0.7	6635
* 1235	P	(0, 11 ; 17)	GR	(0, 10 ; 18)	GR	A	36.765 75	−2.6	2389
* 1236	R	(0, 2 −; 14)	GR	(0, 1 −; 13)	GR	A	36.970 29	−1.7	8774
* 1237	R	(0, 3 −; 18)	GR	(0, 2 −; 17)	GR	A	36.978 58	−0.4	7776
* 1238	P	(0, 7 ; 7)	GR	(0, 6 ; 8)	GR	E	37.002 33	1.0	2278
* 1239	P	(0, −10 ; 23)	GR	(0, −9 ; 24)	GR	E	37.064 66	−0.3	2429
* 1240	R	(0, 4 ; 10)	GR	(0, 3 ; 9)	GR	A	37.101 67	−0.3	6736
* 1241	P	(0, −7 ; 7)	GR	(0, −6 ; 8)	GR	E	37.179 99	1.1	2591
1242	R	(0, 2 ; 23)	GR	(0, 1 ; 22)	GR	E	37.237 24	−6.9	9747
* 1243	P	(1, −4 ; 12)	GR	(1, −3 ; 13)	GR	E	37.260 21	−0.8	3993
1244	P	(1, 4 ; 13)	GR	(1, 3 ; 14)	GR	A	37.278 04	−6.6	3038
* 1245	R	(0, 1 +; 24)	GR	(0, 1 +; 23)	GR	A	37.327 38	−0.5	8193
* 1246	R	(0, 0 ; 24)	GR	(0, 0 ; 23)	GR	E	37.361 27	−3.4	7997
* 1247	R	(1, 6 ; 24)	GR	(1, 6 ; 23)	GR	A	37.446 86	−0.4	5161
* 1248	R	(1, 3 ; 24)	GR	(1, 3 ; 23)	GR	E	37.448 27	−0.7	4470
* 1249	R	(0, 5 ; 6)	GR	(0, 4 ; 5)	GR	E	37.481 46	−1.3	9364
* 1250	R	(0, −1 ; 24)	GR	(0, −1 ; 23)	GR	E	37.493 29	−0.8	7631
* 1251	R	(1, 9 ; 23)	GR	(1, 8 ; 22)	GR	A	37.526 53	−0.7	4312
* 1252	R	(1, 1 ; 28)	GR	(1, 0 ; 27)	GR	E	37.529 89	−0.3	4424
* 1253	R	(1, 1 +; 24)	GR	(1, 1 +; 23)	GR	A	37.533 93	−1.8	5055
* 1254	P	(0, 8 ; 13)	GR	(0, 7 ; 14)	GR	E	37.539 62	−2.3	4019
* 1255	R	(2, 5 ; 24)	GR	(2, 5 ; 23)	GR	E	37.542 38	1.6	5249
* 1256	R	(1, −2 ; 24)	GR	(1, −2 ; 23)	GR	E	37.546 53	−1.2	5904
* 1257	R	(0, 0 +; 24)	GR	(0, 0 +; 23)	GR	A	37.548 89	0.0	8457
* 1258	R	(2, −4 ; 24)	GR	(2, −4 ; 23)	GR	E	37.556 44	−1.1	4266
* 1259	R	(2, 3 ; 24)	GR	(2, 3 ; 23)	GR	A	37.565 89	−1.2	6922
* 1260	R	(2, 4 ; 24)	GR	(2, 4 ; 23)	GR	A	37.565 89	−2.8	6922
* 1261	R	(1, −6 ; 24)	GR	(1, −6 ; 23)	GR	E	37.571 15	0.0	5283
* 1262	R	(1, 2 +; 24)	GR	(1, 2 +; 23)	GR	A	37.576 03	−1.3	5326
* 1263	R	(1, 0 ; 24)	GR	(1, 0 ; 23)	GR	E	37.578 00	2.4	8007
* 1264	R	(1, 4 ; 24)	GR	(1, 4 ; 23)	GR	E	37.578 00	−0.7	8007
1265	R	(1, 5 ; 24)	GR	(1, 5 ; 23)	GR	A	37.578 00	−6.2	8007
* 1266	R	(1, −3 ; 24)	GR	(1, −3 ; 23)	GR	E	37.581 27	−0.4	7368
* 1267	R	(1, 1 ; 24)	GR	(1, 1 ; 23)	GR	E	37.581 27	−2.1	7368
* 1268	R	(1, 2 −; 24)	GR	(1, 2 −; 23)	GR	A	37.588 15	−0.5	5601
* 1269	R	(1, 7 ; 24)	GR	(1, 7 ; 23)	GR	A	37.590 57	−2.0	4786
* 1270	R	(1, 1 −; 24)	GR	(1, 1 −; 23)	GR	A	37.604 44	−2.0	6079
* 1271	R	(1, −1 ; 24)	GR	(1, −1 ; 23)	GR	E	37.626 68	0.8	5304
* 1272	R	(1, 2 ; 24)	GR	(1, 2 ; 23)	GR	E	37.626 99	3.0	8819
* 1273	R	(0, 2 −; 24)	GR	(0, 2 −; 23)	GR	A	37.626 99	−1.7	8819
* 1274	R	(1, 3 +; 24)	GR	(1, 3 +; 23)	GR	A	37.627 84	0.8	3605
1275	R	(1, 3 −; 24)	GR	(1, 3 −; 23)	GR	A	37.627 84	−4.9	3605

Index	T	upper state (n, K ; J) v		lower state (n, K ; J) v		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 1276	R	(1, 0 +; 24)	GR	(1, 0 +; 23)	GR	A	37.630 34	−2.2	5947
* 1277	R	(0, 11 ; 24)	GR	(0, 11 ; 23)	GR	A	37.636 02	−0.3	4761
1278	R	(1, −4 ; 24)	GR	(1, −4 ; 23)	GR	E	37.649 72	4.3	6205
* 1279	R	(0, 10 ; 24)	GR	(0, 10 ; 23)	GR	A	37.649 72	−3.3	6205
* 1280	R	(0, 1 +; 19)	GR	(0, 0 +; 18)	GR	A	37.655 10	−0.6	9662
* 1281	R	(0, −10 ; 24)	GR	(0, −10 ; 23)	GR	E	37.661 58	−0.4	3857
* 1282	R	(1, −5 ; 24)	GR	(1, −5 ; 23)	GR	E	37.665 39	2.7	7127
* 1283	R	(0, −8 ; 24)	GR	(0, −8 ; 23)	GR	E	37.665 39	−1.6	7127
* 1284	R	(0, −9 ; 24)	GR	(0, −9 ; 23)	GR	E	37.665 39	−2.7	7127
* 1285	R	(0, 9 ; 24)	GR	(0, 9 ; 23)	GR	A	37.670 27	0.1	5718
1286	R	(0, 7 ; 24)	GR	(0, 7 ; 23)	GR	A	37.675 68	−4.0	7727
* 1287	R	(0, 8 ; 24)	GR	(0, 8 ; 23)	GR	A	37.678 62	0.2	8464
* 1288	R	(0, −7 ; 24)	GR	(0, −7 ; 23)	GR	E	37.678 62	−2.8	8464
* 1289	R	(0, 6 ; 24)	GR	(0, 6 ; 23)	GR	A	37.681 87	−0.3	7650
* 1290	R	(0, 5 ; 24)	GR	(0, 5 ; 23)	GR	E	37.686 02	−1.9	6857
* 1291	R	(0, 7 ; 24)	GR	(0, 7 ; 23)	GR	E	37.689 52	0.5	7789
* 1292	R	(0, 6 ; 24)	GR	(0, 6 ; 23)	GR	E	37.689 52	−1.9	7789
* 1293	R	(0, 2 ; 24)	GR	(0, 2 ; 23)	GR	E	37.694 28	−0.2	7832
* 1294	R	(0, −4 ; 24)	GR	(0, −4 ; 23)	GR	E	37.695 45	−1.2	7267
* 1295	R	(0, −6 ; 24)	GR	(0, −6 ; 23)	GR	E	37.697 77	−0.9	6656
* 1296	R	(0, 5 ; 24)	GR	(0, 5 ; 23)	GR	A	37.703 38	−0.9	8668
* 1297	R	(0, −3 ; 24)	GR	(0, −3 ; 23)	GR	E	37.705 33	2.3	9091
1298	R	(0, 4 ; 24)	GR	(0, 4 ; 23)	GR	E	37.705 33	−4.4	9091
* 1299	R	(0, 3 +; 24)	GR	(0, 3 +; 23)	GR	A	37.707 92	0.4	8902
1300	R	(0, −5 ; 24)	GR	(0, −5 ; 23)	GR	E	37.707 92	−6.0	8902
* 1301	R	(0, 1 ; 24)	GR	(0, 1 ; 23)	GR	E	37.724 77	−2.4	8116
* 1302	R	(0, 2 +; 13)	GR	(0, 1 +; 12)	GR	A	37.728 73	−0.7	8803
* 1303	R	(0, 4 −; 24)	GR	(0, 4 −; 23)	GR	A	37.734 91	−0.6	6888
* 1304	R	(0, 4 +; 24)	GR	(0, 4 +; 23)	GR	A	37.737 40	−0.2	8170
* 1305	R	(1, 4 ; 24)	GR	(1, 4 ; 23)	GR	A	37.737 40	−3.9	8170
* 1306	R	(0, 3 −; 24)	GR	(0, 3 −; 23)	GR	A	37.740 91	−1.3	7580
* 1307	P	(0, −11 ; 21)	GR	(0, −10 ; 22)	GR	E	37.742 80	2.2	4776
* 1308	R	(1, 5 ; 24)	GR	(1, 5 ; 23)	GR	E	37.742 80	−0.9	4776
* 1309	R	(0, 2 +; 24)	GR	(0, 2 +; 23)	GR	A	37.771 95	−0.9	7473
* 1310	R	(0, 3 ; 24)	GR	(0, 3 ; 23)	GR	E	37.783 10	−1.4	7382
* 1311	R	(0, −5 ; 8)	GR	(0, −4 ; 7)	GR	E	37.865 26	−0.5	9853
* 1312	R	(0, 1 −; 24)	GR	(0, 1 −; 23)	GR	A	37.925 12	−0.8	7876
* 1313	R	(0, −2 ; 24)	GR	(0, −2 ; 23)	GR	E	37.947 21	−1.4	7841
* 1314	P	(0, 10 ; 14)	GR	(0, 9 ; 15)	GR	A	37.995 38	0.6	2598
* 1315	P	(1, 2 ; 23)	GR	(1, 1 ; 24)	GR	E	38.041 81	−2.1	3595
* 1316	P	(0, 9 ; 18)	GR	(0, 8 ; 19)	GR	A	38.066 95	0.3	3156
* 1317	P	(1, 3 ; 18)	GR	(1, 2 −; 19)	GR	A	38.075 81	0.4	3812
1318	P	(1, −1 ; 25)	GR	(1, 0 ; 26)	GR	E	38.082 38	3.2	3945
* 1319	R	(0, −4 ; 13)	GR	(0, −3 ; 12)	GR	E	38.093 48	−1.4	9600
1320	P	(1, 3 ; 18)	GR	(1, 2 +; 19)	GR	A	38.107 46	−4.6	4291
* 1321	R	(0, 3 ; 13)	GR	(0, 2 ; 12)	GR	E	38.203 46	−0.2	9179
* 1322	R	(0, −2 ; 15)	GR	(0, −1 ; 14)	GR	E	38.206 16	−2.0	7991
* 1323	R	(0, 3 +; 19)	GR	(0, 2 +; 18)	GR	A	38.227 81	−0.7	8369
* 1324	R	(0, −3 ; 8)	GR	(0, −2 ; 7)	GR	E	38.256 13	−1.0	9434
* 1325	R	(1, −7 ; 11)	GR	(1, −6 ; 10)	GR	E	38.314 46	−1.0	6761
* 1326	R	(0, 1 ; 20)	GR	(0, 0 ; 19)	GR	E	38.339 33	−1.4	7354
* 1327	P	(0, 11 ; 16)	GR	(0, 10 ; 17)	GR	A	38.341 51	−2.5	3239
* 1328	R	(0, 2 −; 15)	GR	(0, 1 −; 14)	GR	A	38.353 87	−1.6	9179
* 1329	R	(0, −1 ; 27)	GR	(0, 0 ; 26)	GR	E	38.385 60	−0.5	7574
* 1330	Q	(0, 6 ; 34)	GR	(0, 5 ; 34)	GR	A	38.469 18	−0.8	3601
1331	Q	(0, 6 ; 33)	GR	(0, 5 ; 33)	GR	A	38.526 56	−1.9	2824
* 1332	Q	(0, 6 ; 32)	GR	(0, 5 ; 32)	GR	A	38.577 12	−0.3	3658
* 1333	R	(0, 3 −; 19)	GR	(0, 2 −; 18)	GR	A	38.592 77	0.4	8012
* 1334	Q	(0, 6 ; 31)	GR	(0, 5 ; 31)	GR	A	38.623 98	−0.1	4469
* 1335	P	(0, −10 ; 22)	GR	(0, −9 ; 23)	GR	E	38.631 01	1.2	2617
* 1336	Q	(0, 6 ; 30)	GR	(0, 5 ; 30)	GR	A	38.667 26	−0.3	7068
* 1337	R	(0, 4 ; 11)	GR	(0, 3 ; 10)	GR	A	38.674 11	−1.4	9712
* 1338	Q	(0, 6 ; 29)	GR	(0, 5 ; 29)	GR	A	38.706 56	−0.8	6040
* 1339	Q	(0, 6 ; 28)	GR	(0, 5 ; 28)	GR	A	38.742 46	−1.2	6421
* 1340	R	(0, 2 ; 24)	GR	(0, 1 ; 23)	GR	E	38.770 70	−0.4	7017
* 1341	Q	(0, 6 ; 27)	GR	(0, 5 ; 27)	GR	A	38.775 11	−0.7	7031
* 1342	Q	(0, 6 ; 26)	GR	(0, 5 ; 26)	GR	A	38.804 56	−1.1	7458
* 1343	P	(1, −4 ; 11)	GR	(1, −3 ; 12)	GR	E	38.819 11	−0.8	3874
* 1344	P	(1, 4 ; 12)	GR	(1, 3 ; 13)	GR	A	38.827 84	−1.3	3413
* 1345	Q	(0, 6 ; 25)	GR	(0, 5 ; 25)	GR	A	38.831 30	−1.2	7646
* 1346	Q	(0, 6 ; 24)	GR	(0, 5 ; 24)	GR	A	38.855 26	−1.0	7665
* 1347	R	(0, 1 +; 25)	GR	(0, 1 +; 24)	GR	A	38.870 89	−1.1	7994
* 1348	Q	(0, 6 ; 23)	GR	(0, 5 ; 23)	GR	A	38.876 79	−1.3	8497
* 1349	Q	(0, 6 ; 22)	GR	(0, 5 ; 22)	GR	A	38.895 95	−1.7	8461
* 1350	R	(0, 0 ; 25)	GR	(0, 0 ; 24)	GR	E	38.898 99	−0.8	7349



Index	upper state				lower state					$\tilde{\nu}$	$\delta\tilde{\nu}\cdot10^4$	Int.
	T	$(n,$	K	$;J)^{v}$	$\leftarrow (n,$	K	$;J)^{v}$	σ		/cm^{-1}	/cm^{-1}	/a.u.
* 1351	Q	(0,	6	;21) GR	← (0,	5	;21) GR	A		38.913 07	−1.6	8491
* 1352	Q	(0,	6	;20) GR	← (0,	5	;20) GR	A		38.928 06	−1.7	8865
* 1353	Q	(0,	6	;19) GR	← (0,	5	;19) GR	A		38.941 45	−0.8	9268
* 1354	Q	(0,	6	;18) GR	← (0,	5	;18) GR	A		38.953 07	−0.8	9825
* 1355	Q	(0,	6	;17) GR	← (0,	5	;17) GR	A		38.963 27	−0.5	5787
* 1356	Q	(0,	6	;16) GR	← (0,	5	;16) GR	A		38.972 00	−1.6	9834
* 1357	Q	(0,	6	;15) GR	← (0,	5	;15) GR	A		38.979 62	−0.5	9633
* 1358	Q	(0,	6	;14) GR	← (0,	5	;14) GR	A		38.986 16	−0.7	9892
1359	R	(1,	6	;25) GR	← (1,	6	;24) GR	A		38.991 52	5.2	5631
* 1360	Q	(0,	6	;13) GR	← (0,	5	;13) GR	A		38.991 52	−1.9	5631
* 1361	Q	(0,	6	;12) GR	← (0,	5	;12) GR	A		38.996 30	−0.7	5550
* 1362	Q	(0,	6	;11) GR	← (0,	5	;11) GR	A		39.000 28	−0.7	9370
* 1363	R	(0,	1 +	;20) GR	← (0,	0 +	;19) GR	A		39.001 38	−1.3	9560
* 1364	Q	(0,	6	;10) GR	← (0,	5	;10) GR	A		39.003 46	−1.1	9406
* 1365	Q	(0,	6	; 9) GR	← (0,	5	; 9) GR	A		39.006 16	−1.2	9846
* 1366	Q	(0,	6	; 8) GR	← (0,	5	; 8) GR	A		39.008 27	−1.8	9643
* 1367	Q	(0,	6	; 7) GR	← (0,	5	; 7) GR	A		39.010 11	−0.6	8344
* 1368	Q	(0,	6	; 6) GR	← (0,	5	; 6) GR	A		39.011 53	−0.5	7346
* 1369	R	(0,	−1	;25) GR	← (0,	−1	;24) GR	E		39.033 77	−0.7	7374
* 1370	R	(0,	5	; 7) GR	← (0,	4	; 6) GR	E		39.053 48	−1.1	9651
* 1371	R	(1,	1	;29) GR	← (1,	0	;28) GR	E		39.087 20	−0.3	5443
* 1372	R	(1,	1 +	;25) GR	← (1,	1 +	;24) GR	A		39.087 20	−1.8	5443
* 1373	R	(0,	0 +	;25) GR	← (0,	0 +	;24) GR	A		39.093 58	−0.1	8020
* 1374	R	(1,	−2	;25) GR	← (1,	−2	;24) GR	E		39.098 74	0.7	6156
* 1375	R	(2,	5	;25) GR	← (2,	5	;24) GR	E		39.098 74	0.6	6156
* 1376	R	(1,	9	;24) GR	← (1,	8	;23) GR	A		39.110 37	0.3	4131
* 1377	P	(0,	8	;12) GR	← (0,	7	;13) GR	E		39.113 67	1.7	3807
1378	R	(2,	−4	;25) GR	← (2,	−4	;24) GR	E		39.113 67	−6.5	3807
* 1379	R	(2,	4	;25) GR	← (2,	4	;24) GR	A		39.124 01	−0.2	6629
* 1380	R	(2,	3	;25) GR	← (2,	3	;24) GR	A		39.124 01	−0.5	6629
* 1381	R	(1,	2 +	;25) GR	← (1,	2 +	;24) GR	A		39.131 52	−0.9	5889
* 1382	R	(1,	0	;25) GR	← (1,	0	;24) GR	E		39.133 36	2.8	5934
1383	R	(1,	4	;25) GR	← (1,	4	;24) GR	E		39.135 01	4.0	6946
* 1384	R	(1,	5	;25) GR	← (1,	5	;24) GR	A		39.135 01	−1.8	6946
* 1385	R	(1,	1	;25) GR	← (1,	1	;24) GR	E		39.137 46	−0.3	7385
* 1386	P	(0,	8	; 8) GR	← (0,	7	; 9) GR	A		39.137 46	−1.2	7385
* 1387	R	(1,	−3	;25) GR	← (1,	−3	;24) GR	E		39.137 46	−2.5	7385
* 1388	R	(1,	2 −	;25) GR	← (1,	2 −	;24) GR	A		39.145 31	−1.4	5832
* 1389	R	(1,	7	;25) GR	← (1,	7	;24) GR	A		39.149 58	−1.0	3908
* 1390	R	(1,	1 −	;25) GR	← (1,	1 −	;24) GR	A		39.160 41	−1.0	5062
* 1391	R	(0,	2 −	;25) GR	← (0,	2 −	;24) GR	A		39.180 31	−0.2	7348
* 1392	R	(1,	−1	;25) GR	← (1,	−1	;24) GR	E		39.188 18	1.5	5676
* 1393	R	(1,	2	;25) GR	← (1,	2	;24) GR	E		39.188 18	−2.9	5676
* 1394	R	(1,	3 +	;25) GR	← (1,	3 +	;24) GR	A		39.190 30	2.4	7120
* 1395	R	(1,	3 −	;25) GR	← (1,	3 −	;24) GR	A		39.190 30	−2.2	7120
* 1396	R	(1,	0 +	;25) GR	← (1,	0 +	;24) GR	A		39.192 19	−0.6	4278
* 1397	R	(0,	11	;25) GR	← (0,	11	;24) GR	A		39.195 35	0.0	4211
* 1398	R	(0,	10	;25) GR	← (0,	10	;24) GR	A		39.209 80	−0.9	4281
* 1399	R	(1,	−4	;25) GR	← (1,	−4	;24) GR	E		39.214 27	−1.0	4382
* 1400	R	(0,	−10	;25) GR	← (0,	−10	;24) GR	E		39.222 98	0.9	3252
1401	R	(0,	−8	;25) GR	← (0,	−8	;24) GR	E		39.226 47	2.3	4742
1402	R	(0,	−9	;25) GR	← (0,	−9	;24) GR	E		39.226 47	−8.6	4742
* 1403	R	(1,	−5	;25) GR	← (1,	−5	;24) GR	E		39.231 79	−0.3	5638
* 1404	R	(0,	9	;25) GR	← (0,	9	;24) GR	A		39.231 79	−2.4	5638
* 1405	R	(0,	7	;25) GR	← (0,	7	;24) GR	A		39.237 15	−1.8	7246
1406	R	(0,	−7	;25) GR	← (0,	−7	;24) GR	E		39.240 69	4.2	7798
* 1407	R	(0,	8	;25) GR	← (0,	8	;24) GR	A		39.240 69	−3.2	7798
* 1408	R	(0,	6	;25) GR	← (0,	6	;24) GR	A		39.243 22	−0.2	8057
* 1409	R	(0,	2	;25) GR	← (0,	2	;24) GR	E		39.245 64	−1.8	7916
* 1410	R	(0,	5	;25) GR	← (0,	5	;24) GR	E		39.247 71	−1.3	6723
* 1411	R	(0,	6	;25) GR	← (0,	6	;24) GR	E		39.252 53	−0.7	7303
* 1412	R	(0,	7	;25) GR	← (0,	7	;24) GR	E		39.252 53	−0.9	7303
* 1413	R	(0,	−4	;25) GR	← (0,	−4	;24) GR	E		39.258 13	−1.0	7256
* 1414	R	(0,	−6	;25) GR	← (0,	−6	;24) GR	E		39.261 45	−0.3	5883
* 1415	R	(0,	5	;25) GR	← (0,	5	;24) GR	A		39.267 16	−0.2	8389
* 1416	R	(0,	−3	;25) GR	← (0,	−3	;24) GR	E		39.268 83	3.2	7974
1417	R	(0,	4	;25) GR	← (0,	4	;24) GR	E		39.270 02	5.6	7308
* 1418	R	(0,	3 +	;25) GR	← (0,	3 +	;24) GR	A		39.270 02	−3.7	7308
* 1419	R	(0,	−5	;25) GR	← (0,	−5	;24) GR	E		39.273 33	−0.4	6113
* 1420	R	(0,	1	;25) GR	← (0,	1	;24) GR	E		39.286 53	−0.6	7170
* 1421	R	(0,	4 −	;25) GR	← (0,	4 −	;24) GR	A		39.302 57	−0.4	6905
* 1422	R	(0,	4 +	;25) GR	← (0,	4 +	;24) GR	A		39.305 69	−0.9	7305
* 1423	R	(1,	4	;25) GR	← (1,	4	;24) GR	A		39.310 92	2.6	8460
* 1424	R	(0,	3 −	;25) GR	← (0,	3 −	;24) GR	A		39.310 92	−1.2	8460
* 1425	R	(1,	5	;25) GR	← (1,	5	;24) GR	E		39.315 90	−1.2	4310

Index	upper state				lower state					$\tilde{\nu}$	$\delta\tilde{\nu}\cdot10^4$	Int.
	T	$(n,$	K	$;J)^{v}$	$\leftarrow (n,$	K	$;J)^{v}$	σ		/cm^{-1}	/cm^{-1}	/a.u.
* 1426	P	(0,	−11	;20) GR	← (0,	−10	;21) GR	E		39.319 59	−1.9	2728
* 1427	R	(0,	2 +	;25) GR	← (0,	2 +	;24) GR	A		39.341 99	−0.6	7264
* 1428	R	(0,	3	;25) GR	← (0,	3	;24) GR	E		39.356 40	−1.7	7004
* 1429	R	(0,	6	; 6) GR	← (0,	5	; 5) GR	E		39.369 33	−0.6	9781
* 1430	R	(0,	−5	; 9) GR	← (0,	−4	; 8) GR	E		39.436 62	−1.0	9696
* 1431	Q	(0,	5	;32) GR	← (0,	4 +	;32) GR	A		39.473 81	4.0	3074
* 1432	R	(0,	1 −	;25) GR	← (0,	1 −	;24) GR	A		39.487 13	−0.4	7173
* 1433	R	(0,	2 +	;14) GR	← (0,	1 +	;13) GR	A		39.499 11	−1.2	9117
* 1434	R	(0,	−2	;25) GR	← (0,	−2	;24) GR	E		39.533 81	−1.0	7970
* 1435	Q	(0,	5	;32) GR	← (0,	4 −	;32) GR	A		39.549 25	−4.7	4001
1436	Q	(0,	5	;31) GR	← (0,	4 +	;31) GR	A		39.557 97	5.2	4462
1437	P	(1,	2	;22) GR	← (1,	1	;23) GR	E		39.559 00	−5.1	4231
* 1438	P	(0,	10	;13) GR	← (0,	9	;14) GR	A		39.571 62	0.5	2274
* 1439	P	(1,	−1	;24) GR	← (1,	0	;25) GR	E		39.581 30	−1.6	3253
* 1440	Q	(0,	5	;31) GR	← (0,	4 −	;31) GR	A		39.617 10	−5.8	4109
* 1441	P	(1,	3	;17) GR	← (1,	2 −	;18) GR	A		39.622 08	0.4	3773
* 1442	P	(0,	9	;17) GR	← (0,	8	;18) GR	A		39.626 55	−1.4	4304
* 1443	Q	(0,	5	;30) GR	← (0,	4 +	;30) GR	A		39.633 76	2.2	5019
* 1444	P	(1,	3	;17) GR	← (1,	2 +	;18) GR	A		39.647 85	−1.6	4782
* 1445	R	(0,	−4	;14) GR	← (0,	−3	;13) GR	E		39.660 58	−1.9	9107
1446	Q	(0,	5	;30) GR	← (0,	4 −	;30) GR	A		39.680 05	−3.3	5226
* 1447	Q	(0,	5	;29) GR	← (0,	4 +	;29) GR	A		39.702 05	1.1	5498
* 1448	R	(0,	2 −	;16) GR	← (0,	1 −	;15) GR	A		39.723 59	−0.2	8476
1449	Q	(0,	5	;29) GR	← (0,	4 −	;29) GR	A		39.737 84	−3.4	5356
* 1450	R	(0,	3 +	;20) GR	← (0,	2 +	;19) GR	A		39.761 76	0.2	9840
* 1451	R	(0,	3	;14) GR	← (0,	2	;13) GR	E		39.761 76	−1.7	9840
* 1452	Q	(0,	5	;28) GR	← (0,	4 +	;28) GR	A		39.763 17	−1.4	6382
* 1453	Q	(0,	5	;28) GR	← (0,	4 −	;28) GR	A		39.790 81	−2.0	6078
* 1454	Q	(0,	5	;27) GR	← (0,	4 +	;27) GR	A		39.818 39	0.9	6496
* 1455	R	(0,	−3	; 9) GR	← (0,	−2	; 8) GR	E		39.822 01	−0.8	9560
* 1456	Q	(0,	5	;27) GR	← (0,	4 −	;27) GR	A		39.839 02	−1.3	6457
* 1457	Q	(0,	5	;26) GR	← (0,	4 +	;26) GR	A		39.867 29	−0.1	7196
* 1458	R	(1,	−7	;12) GR	← (1,	−6	;11) GR	E		39.874 45	−0.2	7140
* 1459	Q	(0,	5	;26) GR	← (0,	4 −	;26) GR	A		39.882 67	−2.2	6630
* 1460	R	(0,	−2	;16) GR	← (0,	−1	;15) GR	E		39.906 10	−0.7	8370
* 1461	Q	(0,	5	;25) GR	← (0,	4 +	;25) GR	A		39.910 76	0.3	7372
* 1462	P	(0,	11	;15) GR	← (0,	10	;16) GR	A		39.917 92	0.1	3200
* 1463	Q	(0,	5	;25) GR	← (0,	4 −	;25) GR	A		39.922 16	−1.7	7190
* 1464	Q	(0,	5	;24) GR	← (0,	4 +	;24) GR	A		39.949 19	−1.3	7485
* 1465	Q	(0,	5	;24) GR	← (0,	4 −	;24) GR	A		39.957 59	−1.8	7911
* 1466	Q	(0,	5	;23) GR	← (0,	4 +	;23) GR	A		39.983 52	2.4	5488
1467	R	(0,	4	; 4) GR	← (0,	3	; 3) GR	E		39.983 52	−4.4	0
* 1468	Q	(0,	5	;23) GR	← (0,	4 −	;23) GR	A		39.989 18	−1.0	7993
* 1469	Q	(0,	5	;22) GR	← (0,	4 +	;22) GR	A		40.012 92	−0.5	8380
* 1470	Q	(0,	5	;22) GR	← (0,	4 −	;22) GR	A		40.017 02	−1.4	8592
* 1471	Q	(0,	5	;21) GR	← (0,	4 +	;21) GR	A		40.038 77	−0.7	8231
* 1472	Q	(0,	5	;21) GR	← (0,	4 −	;21) GR	A		40.041 77	−0.1	8008
* 1473	R	(0,	−1	;28) GR	← (0,	0	;27) GR	E		40.058 88	−0.4	7864
* 1474	Q	(0,	5	;20) GR	← (0,	4 +	;20) GR	A		40.061 27	−1.5	8954
* 1475	Q	(0,	5	;20) GR	← (0,	4 −	;20) GR	A		40.063 26	−0.9	8661
* 1476	Q	(0,	5	;19) GR	← (0,	4 +	;19) GR	A		40.080 60	−4.2	8822
* 1477	Q	(0,	5	;19) GR	← (0,	4 −	;19) GR	A		40.081 80	−0.3	8726
* 1478	Q	(0,	5	;18) GR	← (0,	4	;18) GR	A		40.097 59	0.2	5299
* 1479	Q	(0,	5	;17) GR	← (0,	4	;17) GR	A		40.111 42	−1.4	9848
* 1480	Q	(0,	5	;16) GR	← (0,	4	;16) GR	A		40.123 11	−0.8	4822
* 1481	Q	(0,	5	;15) GR	← (0,	4	;15) GR	A		40.133 07	0.9	4769
* 1482	Q	(0,	5	;14) GR	← (0,	4	;14) GR	A		40.140 91	−0.3	9859
* 1483	Q	(0,	5	;13) GR	← (0,	4	;13) GR	A		40.147 61	0.7	5323
* 1484	Q	(0,	5	;12) GR	← (0,	4	;12) GR	A		40.152 94	1.5	3659
* 1485	Q	(0,	5	;11) GR	← (0,	4	;11) GR	A		40.156 75	−0.4	3754
* 1486	Q	(0,	5	;10) GR	← (0,	4	;10) GR	A		40.159 85	−0.4	3402
* 1487	Q	(0,	5	; 9) GR	← (0,	4	; 9) GR	A		40.161 87	−3.6	4346
1488	Q	(0,	5	; 8) GR	← (0,	4	; 8) GR	A		40.163 40	−5.3	3625
* 1489	Q	(0,	5	; 7) GR	← (0,	4	; 7) GR	A		40.164 77	−3.4	4108
* 1490	R	(0,	1	;21) GR	← (0,	0	;20) GR	E		40.165 91	3.3	5764
* 1491	Q	(0,	5	; 6) GR	← (0,	4	; 6) GR	A		40.166 15	2.2	4510
* 1492	Q	(0,	5	; 5) GR	← (0,	4	; 5) GR	A		40.166 15	−2.4	4510
* 1493	P	(0,	−10	;21) GR	← (0,	−9	;22) GR	E		40.198 15	−1.1	2732
* 1494	R	(0,	3 −	;20) GR	← (0,	2 −	;19) GR	A		40.215 29	−0.2	8440
* 1495	R	(0,	4	;12) GR	← (0,	3 −	;11) GR	A		40.245 65	−1.8	9547
* 1496	R	(0,	4	;12) GR	← (0,	3 +	;11) GR	A		40.247 28	−0.2	9769
* 1497	R	(0,	2	;25) GR	← (0,	1	;24) GR	E		40.291 49	−0.7	6967
* 1498	R	(0,	1 +	;21) GR	← (0,	0 +	;20) GR	A		40.341 55	0.2	9434
* 1499	P	(1,	−4	;10) GR	← (1,	−3	;11) GR	E		40.380 59	−0.4	3961
* 1500	P	(1,	4	;11) GR	← (1,	3	;12) GR	A		40.382 34	1.5	2479



Index	upper state T (n, K ; J) v	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 1801	Q (0, −6 ; 29) GR	← (0, −5 ; 29) GR	E	45.193 19	−0.3	5537
* 1802	Q (0, −6 ; 28) GR	← (0, −5 ; 28) GR	E	45.210 98	−0.4	5966
* 1803	Q (0, −6 ; 27) GR	← (0, −5 ; 27) GR	E	45.227 09	−0.9	6002
* 1804	Q (0, −6 ; 26) GR	← (0, −5 ; 26) GR	E	45.241 68	−0.9	6847
* 1805	R (0, 0 +; 29) GR	← (0, 0 +; 28) GR	A	45.252 08	−1.0	6575
* 1806	Q (0, −6 ; 25) GR	← (0, −5 ; 25) GR	E	45.255 00	−0.6	7100
* 1807	Q (0, −6 ; 24) GR	← (0, −5 ; 24) GR	E	45.266 90	−0.5	7830
* 1808	Q (0, −6 ; 23) GR	← (0, −5 ; 23) GR	E	45.277 60	−0.2	4498
* 1809	R (1, 1 +; 29) GR	← (1, 1 +; 28) GR	A	45.287 12	0.9	8724
* 1810	Q (0, −6 ; 22) GR	← (0, −5 ; 22) GR	E	45.287 12	−0.6	8724
* 1811	R (1, −2 ; 29) GR	← (1, −2 ; 28) GR	E	45.291 18	−1.1	4322
* 1812	Q (0, −6 ; 21) GR	← (0, −5 ; 21) GR	E	45.295 64	−1.5	8450
* 1813	Q (0, −6 ; 20) GR	← (0, −5 ; 20) GR	E	45.303 20	−0.9	8769
* 1814	Q (0, −6 ; 19) GR	← (0, −5 ; 19) GR	E	45.309 95	−0.4	8921
* 1815	Q (0, −6 ; 18) GR	← (0, −5 ; 18) GR	E	45.315 78	−1.3	9614
* 1816	Q (0, −6 ; 17) GR	← (0, −5 ; 17) GR	E	45.321 01	−0.9	9439
* 1817	Q (0, −6 ; 16) GR	← (0, −5 ; 16) GR	E	45.325 52	−1.2	9302
* 1818	Q (0, −6 ; 15) GR	← (0, −5 ; 15) GR	E	45.329 44	−0.1	9367
* 1819	Q (0, −6 ; 14) GR	← (0, −5 ; 14) GR	E	45.332 85	−0.7	9155
* 1820	R (0, 5 ; 11) GR	← (0, 4 ; 10) GR	E	45.334 67	3.2	9784
* 1821	Q (0, −6 ; 13) GR	← (0, −5 ; 13) GR	E	45.335 99	1.2	3741
* 1822	Q (0, −6 ; 12) GR	← (0, −5 ; 12) GR	E	45.338 17	−0.9	9592
* 1823	Q (0, −6 ; 11) GR	← (0, −5 ; 11) GR	E	45.340 39	−1.1	5810
* 1824	Q (0, −6 ; 10) GR	← (0, −5 ; 10) GR	E	45.342 16	−0.2	5737
* 1825	R (1, 0 ; 29) GR	← (1, 0 ; 28) GR	E	45.342 20	−3.2	9438
* 1826	Q (0, −6 ; 9) GR	← (0, −5 ; 9) GR	E	45.343 89	1.9	5696
1827	Q (0, −6 ; 8) GR	← (0, −5 ; 8) GR	E	45.345 62	6.9	5907
* 1828	Q (0, −6 ; 7) GR	← (0, −5 ; 7) GR	E	45.345 75	−1.7	9634
1829	R (2, 4 ; 29) GR	← (2, 4 ; 28) GR	A	45.345 75	−4.6	9634
1830	Q (0, −6 ; 6) GR	← (0, −5 ; 6) GR	E	45.347 20	4.5	3773
* 1831	R (1, 1 ; 29) GR	← (1, 1 ; 28) GR	E	45.349 76	2.4	6663
1832	R (1, 5 ; 29) GR	← (1, 5 ; 28) GR	A	45.349 76	−3.6	6663
* 1833	R (1, −3 ; 29) GR	← (1, −3 ; 28) GR	E	45.351 44	−0.4	5509
* 1834	R (1, 1 −; 29) GR	← (1, 1 −; 28) GR	A	45.369 93	−2.4	6286
* 1835	R (1, 7 ; 29) GR	← (1, 7 ; 28) GR	A	45.376 18	0.9	7039
* 1836	R (0, 11 ; 29) GR	← (0, 11 ; 28) GR	A	45.419 54	−0.7	3920
* 1837	R (1, 9 ; 28) GR	← (1, 8 ; 27) GR	A	45.426 10	−0.6	3468
* 1838	R (1, 2 ; 29) GR	← (1, 2 ; 28) GR	E	45.428 35	−0.2	4806
* 1839	R (1, 0 +; 29) GR	← (1, 0 +; 28) GR	A	45.430 46	0.2	4590
* 1840	R (0, 10 ; 29) GR	← (0, 10 ; 28) GR	A	45.437 23	−1.2	4361
* 1841	R (0, 2 ; 29) GR	← (0, 2 ; 28) GR	E	45.439 46	−0.4	6786
* 1842	R (0, −8 ; 29) GR	← (0, −8 ; 28) GR	E	45.457 43	1.0	4776
1843	R (0, −10 ; 29) GR	← (0, −10 ; 28) GR	E	45.457 43	−4.0	4776
* 1844	R (0, −9 ; 29) GR	← (0, −9 ; 28) GR	E	45.463 05	1.0	4355
* 1845	R (0, 9 ; 29) GR	← (0, 9 ; 28) GR	A	45.468 80	2.2	5264
1846	R (1, −4 ; 29) GR	← (1, −4 ; 28) GR	E	45.468 80	−6.0	5264
* 1847	R (0, 7 ; 29) GR	← (0, 7 ; 28) GR	A	45.472 66	−1.6	6241
* 1848	R (0, −7 ; 29) GR	← (0, −7 ; 28) GR	E	45.474 80	1.1	4777
* 1849	R (0, 6 ; 29) GR	← (0, 6 ; 28) GR	A	45.477 42	−0.3	6856
* 1850	R (0, 8 ; 29) GR	← (0, 8 ; 28) GR	A	45.481 23	−2.2	5969
* 1851	R (0, 5 ; 29) GR	← (0, 5 ; 28) GR	E	45.483 15	−0.1	6501
* 1852	R (1, −5 ; 29) GR	← (1, −5 ; 28) GR	E	45.492 48	−0.1	2834
* 1853	R (0, 6 ; 29) GR	← (0, 6 ; 28) GR	E	45.494 36	0.9	5589
* 1854	R (0, 7 ; 29) GR	← (0, 7 ; 28) GR	E	45.496 29	1.0	5195
* 1855	R (0, −4 ; 29) GR	← (0, −4 ; 28) GR	E	45.498 50	−2.1	5679
* 1856	R (0, −6 ; 29) GR	← (0, −6 ; 28) GR	E	45.506 90	−1.3	5418
1857	R (0, 1 ; 29) GR	← (0, 1 ; 28) GR	E	45.512 80	3.2	9395
* 1858	R (0, −3 ; 29) GR	← (0, −3 ; 28) GR	E	45.512 80	−0.7	9395
1859	R (0, 5 ; 29) GR	← (0, 5 ; 28) GR	A	45.512 80	−6.0	9395
* 1860	R (0, 3 +; 29) GR	← (0, 3 +; 28) GR	A	45.514 18	0.0	6301
* 1861	R (0, 4 ; 29) GR	← (0, 4 ; 28) GR	E	45.514 18	−3.5	6301
* 1862	R (0, −5 ; 29) GR	← (0, −5 ; 28) GR	E	45.524 77	−0.5	5489
* 1863	P (2, −2 ; 20) GR	← (2, −1 ; 21) GR	E	45.557 48	−0.8	2695
* 1864	R (0, 4 −; 29) GR	← (0, 4 −; 28) GR	A	45.566 22	−0.1	5756
* 1865	R (0, 4 +; 29) GR	← (0, 4 +; 28) GR	A	45.574 74	−0.2	5893
* 1866	R (1, 4 ; 29) GR	← (1, 4 ; 28) GR	A	45.591 77	−1.2	7402
* 1867	R (0, 3 −; 29) GR	← (0, 3 −; 28) GR	A	45.591 77	−1.2	7402
1868	R (1, 5 ; 29) GR	← (1, 5 ; 28) GR	E	45.599 77	5.0	3837
* 1869	R (0, 2 +; 29) GR	← (0, 2 +; 28) GR	A	45.612 43	−1.3	6380
* 1870	R (0, 3 ; 29) GR	← (0, 3 ; 28) GR	E	45.645 56	0.7	7383
1871	P (1, −1 ; 20) GR	← (1, 0 ; 21) GR	E	45.645 56	−6.2	7383
* 1872	R (0, 6 ; 10) GR	← (0, 5 ; 9) GR	E	45.650 79	0.0	6733
* 1873	R (0, 1 +; 25) GR	← (0, 0 +; 24) GR	A	45.652 95	0.0	9106
* 1874	P (1, 2 ; 18) GR	← (1, 1 ; 19) GR	E	45.684 73	−0.1	5153
* 1875	R (0, −5 ; 13) GR	← (0, −4 ; 12) GR	E	45.720 25	−0.4	9817

Index	upper state T (n, K ; J) v	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 1876	R (0, 1 ; 24) GR	← (0, 0 ; 23) GR	E	45.795 43	−1.0	6665
* 1877	R (0, 3 +; 24) GR	← (0, 2 +; 23) GR	A	45.831 16	−0.8	7221
* 1878	P (1, 3 ; 13) GR	← (1, 2 −; 14) GR	A	45.838 66	−1.1	5831
* 1879	Q (1, 5 ; 5) GR	← (1, 4 ; 5) GR	E	45.842 26	−1.6	2351
* 1880	Q (1, 5 ; 6) GR	← (1, 4 ; 6) GR	E	45.843 88	1.1	3979
* 1881	Q (1, 5 ; 7) GR	← (1, 4 ; 7) GR	E	45.846 68	−0.8	6819
* 1882	P (1, 3 ; 13) GR	← (1, 2 +; 14) GR	A	45.848 56	−0.4	5978
* 1883	Q (1, 5 ; 8) GR	← (1, 4 ; 8) GR	E	45.852 00	−0.2	7065
* 1884	R (0, −2 ; 29) GR	← (0, −2 ; 28) GR	E	45.859 77	3.2	8062
* 1885	Q (1, 5 ; 9) GR	← (1, 4 ; 9) GR	E	45.859 77	−3.1	8062
* 1886	R (1, 6 ; 8) GR	← (1, 5 ; 7) GR	A	45.868 66	0.6	9559
* 1887	Q (1, 5 ; 10) GR	← (1, 4 ; 10) GR	E	45.871 99	0.4	7908
* 1888	Q (1, 5 ; 11) GR	← (1, 4 ; 11) GR	E	45.888 42	−0.6	8221
* 1889	Q (1, 5 ; 12) GR	← (1, 4 ; 12) GR	E	45.910 39	0.1	8177
* 1890	P (0, 9 ; 13) GR	← (0, 8 ; 14) GR	A	45.917 06	0.3	4773
* 1891	R (0, −4 ; 18) GR	← (0, −3 ; 17) GR	E	45.919 10	−0.6	9002
* 1892	Q (1, 5 ; 13) GR	← (1, 4 ; 13) GR	E	45.938 91	−0.2	8021
* 1893	Q (1, 5 ; 14) GR	← (1, 4 ; 14) GR	E	45.974 88	−0.2	8410
* 1894	R (0, 3 ; 18) GR	← (0, 2 ; 17) GR	E	46.002 07	−0.3	8552
* 1895	Q (1, 5 ; 15) GR	← (1, 4 ; 15) GR	E	46.019 49	0.2	8202
* 1896	R (0, −3 ; 13) GR	← (0, −2 ; 12) GR	E	46.036 78	−0.3	9521
* 1897	Q (1, 5 ; 16) GR	← (1, 4 ; 16) GR	E	46.073 71	−1.4	8134
* 1898	R (1, −7 ; 16) GR	← (1, −6 ; 15) GR	E	46.084 07	−1.3	6558
* 1899	Q (1, 5 ; 17) GR	← (1, 4 ; 17) GR	E	46.138 64	−0.9	8239
* 1900	Q (1, 5 ; 18) GR	← (1, 4 ; 18) GR	E	46.215 29	0.7	8258
* 1901	R (0, 2 ; 29) GR	← (0, 1 ; 28) GR	E	46.268 72	−0.4	5758
* 1902	R (0, 4 ; 8) GR	← (0, 3 ; 7) GR	E	46.276 42	−0.9	9724
* 1903	Q (1, 5 ; 19) GR	← (1, 4 ; 19) GR	E	46.304 60	−1.0	7940
* 1904	R (0, 2 −; 21) GR	← (0, 1 −; 20) GR	A	46.369 24	−1.3	8972
* 1905	Q (1, 5 ; 20) GR	← (1, 4 ; 20) GR	E	46.407 55	−0.2	7544
* 1906	P (0, −10 ; 17) GR	← (0, −9 ; 18) GR	E	46.472 81	1.4	3018
* 1907	Q (1, 5 ; 21) GR	← (1, 4 ; 21) GR	E	46.524 90	−1.2	7160
* 1908	R (0, 4 ; 16) GR	← (0, 3 −; 15) GR	A	46.532 91	−1.6	9425
* 1909	R (0, 4 ; 16) GR	← (0, 3 +; 15) GR	A	46.542 95	0.5	9208
* 1910	R (0, 1 +; 30) GR	← (0, 1 +; 29) GR	A	46.569 09	−1.2	6475
* 1911	R (0, 0 ; 30) GR	← (0, 0 ; 29) GR	E	46.573 98	−1.2	6438
* 1912	P (1, 4 ; 7) GR	← (1, 3 ; 8) GR	A	46.634 28	1.5	2117
* 1913	P (1, −4 ; 6) GR	← (1, −3 ; 7) GR	E	46.644 23	−0.1	3141
* 1914	Q (1, 5 ; 22) GR	← (1, 4 ; 22) GR	E	46.657 43	−0.9	6929
* 1915	R (1, 6 ; 30) GR	← (1, 6 ; 29) GR	A	46.693 77	−0.1	4217
* 1916	R (0, 7 ; 7) GR	← (0, 6 ; 6) GR	A	46.706 42	−0.9	6610
* 1917	R (0, −1 ; 30) GR	← (0, −1 ; 29) GR	E	46.710 11	−0.8	6245
* 1918	R (0, −1 ; 32) GR	← (0, 0 ; 31) GR	E	46.729 72	0.9	6434
* 1919	R (0, 2 +; 18) GR	← (0, 1 +; 17) GR	A	46.774 87	−0.2	8428
* 1920	R (0, 0 +; 30) GR	← (0, 0 +; 29) GR	A	46.786 73	0.7	6656
* 1921	Q (1, 5 ; 23) GR	← (1, 4 ; 23) GR	E	46.805 74	0.0	7426
* 1922	R (0, 3 −; 24) GR	← (0, 2 −; 23) GR	A	46.814 65	−0.9	7256
* 1923	R (1, 1 +; 30) GR	← (1, 1 +; 29) GR	A	46.833 41	−0.5	4204
* 1924	R (1, −2 ; 30) GR	← (1, −2 ; 29) GR	E	46.835 43	−1.3	3956
* 1925	R (1, 0 ; 30) GR	← (1, 0 ; 29) GR	E	46.891 48	−0.8	4546
* 1926	R (1, 1 ; 30) GR	← (1, 1 ; 29) GR	E	46.898 69	−2.8	5836
1927	R (2, 4 ; 30) GR	← (2, 4 ; 29) GR	A	46.898 69	−6.4	5836
1928	R (1, 5 ; 30) GR	← (1, 5 ; 29) GR	A	46.902 26	14.6	9719
1929	R (1, −3 ; 30) GR	← (1, −3 ; 29) GR	E	46.902 26	6.5	9719
* 1930	R (0, 5 ; 12) GR	← (0, 4 ; 11) GR	E	46.902 26	−0.3	9719
* 1931	R (1, 1 −; 30) GR	← (1, 1 −; 29) GR	A	46.918 92	−0.9	4097
* 1932	R (1, 7 ; 30) GR	← (1, 7 ; 29) GR	A	46.930 01	−2.0	3553
* 1933	Q (1, 5 ; 24) GR	← (1, 4 ; 24) GR	E	46.970 51	−0.5	6813
* 1934	R (0, 11 ; 30) GR	← (0, 11 ; 29) GR	A	46.972 59	0.5	9800
* 1935	R (0, 1 +; 26) GR	← (0, 0 +; 25) GR	A	46.972 59	−0.8	9800
* 1936	R (0, 2 ; 30) GR	← (0, 2 ; 29) GR	E	46.984 77	−0.7	5783
* 1937	R (0, 10 ; 30) GR	← (0, 10 ; 29) GR	A	46.991 00	−0.6	4802
* 1938	R (1, 9 ; 29) GR	← (1, 8 ; 28) GR	A	46.999 66	0.1	4374
* 1939	R (0, −2 ; 20) GR	← (0, −1 ; 19) GR	E	47.010 38	−1.8	6618
* 1940	R (0, −8 ; 30) GR	← (0, −8 ; 29) GR	E	47.011 87	−1.2	3975
* 1941	R (0, −10 ; 30) GR	← (0, −10 ; 29) GR	E	47.013 92	0.9	3035
* 1942	R (0, −9 ; 30) GR	← (0, −9 ; 29) GR	E	47.019 16	0.0	3892
* 1943	R (0, 9 ; 30) GR	← (0, 9 ; 29) GR	A	47.024 82	−0.8	4587
* 1944	R (0, 7 ; 30) GR	← (0, 7 ; 29) GR	A	47.028 66	−0.8	5640
* 1945	R (0, −7 ; 30) GR	← (0, −7 ; 29) GR	E	47.030 77	2.9	5217
* 1946	R (0, 6 ; 30) GR	← (0, 6 ; 29) GR	A	47.032 94	−1.2	6490
* 1947	R (0, 8 ; 30) GR	← (0, 8 ; 29) GR	A	47.038 85	0.5	7112
* 1948	R (0, 5 ; 30) GR	← (0, 5 ; 29) GR	E	47.038 85	−1.2	7112
* 1949	R (0, 6 ; 30) GR	← (0, 6 ; 29) GR	E	47.052 36	1.3	4258
1950	R (0, 7 ; 30) GR	← (0, 7 ; 29) GR	E	47.054 09	−5.3	4476



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 1951	R (0, −4 ; 30) GR	←	(0, −4 ; 29) GR	E	47.055 74	−2.6	8730
* 1952	R (1, −5 ; 30) GR	←	(1, −5 ; 29) GR	E	47.055 95	−2.0	3970
* 1953	R (0, 1 ; 30) GR	←	(0, 1 ; 29) GR	E	47.062 91	−0.9	6728
* 1954	R (0, −6 ; 30) GR	←	(0, −6 ; 29) GR	E	47.066 02	0.2	2722
* 1955	R (0, −3 ; 30) GR	←	(0, −3 ; 29) GR	E	47.071 80	2.3	4951
* 1956	R (0, 3 +; 30) GR	←	(0, 3 +; 29) GR	A	47.072 02	0.0	7653
1957	R (0, 5 ; 30) GR	←	(0, 5 ; 29) GR	A	47.072 02	−3.9	7653
* 1958	R (0, 4 ; 30) GR	←	(0, 4 ; 29) GR	E	47.073 06	−3.6	4487
* 1959	R (0, −5 ; 30) GR	←	(0, −5 ; 29) GR	E	47.085 40	−0.6	5388
* 1960	P (2, −2 ; 19) GR	←	(2, −1 ; 20) GR	E	47.124 46	−0.1	2446
* 1961	R (0, 4 −; 30) GR	←	(0, 4 −; 29) GR	A	47.130 10	−1.0	5858
* 1962	R (0, 4 +; 30) GR	←	(0, 4 +; 29) GR	A	47.140 82	0.1	5571
* 1963	Q (1, 5 ; 25) GR	←	(1, 4 ; 25) GR	E	47.151 95	−0.1	6179
* 1964	R (1, 4 ; 30) GR	←	(1, 4 ; 29) GR	A	47.159 56	1.1	4768
* 1965	R (0, 3 −; 30) GR	←	(0, 3 −; 29) GR	A	47.162 02	−1.1	6173
* 1966	R (1, 5 ; 30) GR	←	(1, 5 ; 29) GR	E	47.167 42	2.0	3681
* 1967	P (1, −1 ; 19) GR	←	(1, 0 ; 20) GR	E	47.176 87	0.7	7316
* 1968	R (0, 2 +; 30) GR	←	(0, 2 +; 29) GR	A	47.176 87	−1.4	7316
* 1969	R (0, 3 ; 30) GR	←	(0, 3 ; 29) GR	E	47.215 90	1.1	6145
* 1970	R (0, 6 ; 11) GR	←	(0, 5 ; 10) GR	E	47.219 81	−1.2	9764
* 1971	P (1, 2 ; 17) GR	←	(1, 1 ; 18) GR	E	47.227 82	−0.9	5389
* 1972	R (0, −5 ; 14) GR	←	(0, −4 ; 13) GR	E	47.290 94	−0.4	9746
* 1973	R (0, 3 +; 25) GR	←	(0, 2 +; 24) GR	A	47.329 58	0.0	7205
* 1974	Q (1, 5 ; 26) GR	←	(1, 4 ; 26) GR	E	47.350 63	−1.4	5827
* 1975	P (1, 3 ; 12) GR	←	(1, 2 −; 13) GR	A	47.399 23	−0.3	5914
* 1976	P (1, 3 ; 12) GR	←	(1, 2 +; 13) GR	A	47.406 56	−0.8	5736
* 1977	R (1, 6 ; 9) GR	←	(1, 5 ; 8) GR	A	47.430 12	−0.2	9528
* 1978	R (0, −4 ; 19) GR	←	(0, −3 ; 18) GR	E	47.480 89	−1.4	8743
* 1979	P (0, 9 ; 12) GR	←	(0, 8 ; 13) GR	A	47.489 52	0.2	3615
* 1980	Q (1, 5 ; 27) GR	←	(1, 4 ; 27) GR	E	47.566 74	−0.1	5974
* 1981	R (0, −3 ; 14) GR	←	(0, −2 ; 13) GR	E	47.572 50	2.0	7481
* 1982	R (0, 3 ; 19) GR	←	(0, 2 ; 18) GR	E	47.573 08	−1.4	4784
* 1983	R (1, −7 ; 17) GR	←	(1, −6 ; 16) GR	E	47.626 85	0.0	7054
* 1984	R (0, 2 −; 22) GR	←	(0, 1 −; 21) GR	A	47.659 44	−1.1	8632
* 1985	R (0, 1 ; 25) GR	←	(0, 0 ; 24) GR	E	47.720 40	−1.0	6135
* 1986	R (0, 2 ; 30) GR	←	(0, 1 ; 29) GR	E	47.741 06	−0.6	5307
* 1987	Q (1, 5 ; 28) GR	←	(1, 4 ; 28) GR	E	47.800 44	−1.2	5084
* 1988	R (0, 4 ; 9) GR	←	(0, 3 ; 8) GR	E	47.847 22	−0.6	6486
* 1989	R (0, 5 ; 5) GR	←	(0, 4 ; 4) GR	A	48.037 46	−0.8	6662
* 1990	P (0, −10 ; 16) GR	←	(0, −9 ; 17) GR	E	48.042 79	−1.0	2971
* 1991	Q (1, 5 ; 29) GR	←	(1, 4 ; 29) GR	E	48.051 97	0.1	4709
* 1992	R (0, 4 ; 17) GR	←	(0, 3 −; 16) GR	A	48.104 36	−1.2	9853
1993	R (0, 1 +; 31) GR	←	(0, 1 +; 30) GR	A	48.104 36	−4.0	9853
* 1994	R (0, 0 ; 31) GR	←	(0, 0 ; 30) GR	E	48.106 44	0.1	6695
* 1995	R (0, 4 ; 17) GR	←	(0, 3 +; 16) GR	A	48.118 94	1.2	9660
* 1996	P (1, 4 ; 6) GR	←	(1, 3 ; 7) GR	A	48.202 75	0.0	2454
* 1997	P (1, −4 ; 5) GR	←	(1, −3 ; 6) GR	E	48.213 12	−0.8	2526
* 1998	R (1, 6 ; 31) GR	←	(1, 6 ; 30) GR	A	48.231 14	−0.8	3867
* 1999	R (0, −1 ; 31) GR	←	(0, −1 ; 30) GR	E	48.240 55	−0.7	5822
* 2000	R (0, 7 ; 8) GR	←	(0, 6 ; 7) GR	A	48.276 13	−0.4	5295
* 2001	R (0, 1 +; 27) GR	←	(0, 0 +; 26) GR	A	48.290 57	−0.6	8872
* 2002	Q (1, 5 ; 30) GR	←	(1, 4 ; 30) GR	E	48.321 39	2.1	5594
* 2003	R (0, 0 +; 31) GR	←	(0, 0 +; 30) GR	A	48.321 39	1.2	5594
* 2004	R (1, −2 ; 31) GR	←	(1, −2 ; 30) GR	E	48.378 22	0.3	4998
* 2005	R (1, 1 +; 31) GR	←	(1, 1 +; 30) GR	A	48.379 91	−1.7	3692
* 2006	R (0, −1 ; 33) GR	←	(0, 0 ; 32) GR	E	48.388 84	−0.2	6127
* 2007	R (1, 0 ; 31) GR	←	(1, 0 ; 30) GR	E	48.439 26	2.6	4875
* 2008	R (1, 5 ; 31) GR	←	(1, 5 ; 30) GR	A	48.447 13	0.0	5445
* 2009	R (1, 1 ; 31) GR	←	(1, 1 ; 30) GR	E	48.447 13	−2.7	5445
* 2010	R (1, −3 ; 31) GR	←	(1, −3 ; 30) GR	E	48.450 39	−0.4	6457
* 2011	R (0, 6 ; 6) GR	←	(0, 5 ; 5) GR	A	48.456 21	−0.6	4938
* 2012	R (1, 1 −; 31) GR	←	(1, 1 −; 30) GR	A	48.466 54	0.8	4214
* 2013	R (0, 5 ; 13) GR	←	(0, 4 ; 12) GR	E	48.468 92	−1.1	9668
* 2014	R (1, 7 ; 31) GR	←	(1, 7 ; 30) GR	A	48.483 01	−1.7	4187
* 2015	R (0, 3 −; 25) GR	←	(0, 2 −; 24) GR	A	48.498 68	0.6	7289
* 2016	R (0, 11 ; 31) GR	←	(0, 11 ; 30) GR	A	48.524 09	−1.0	3353
* 2017	R (0, 2 ; 31) GR	←	(0, 2 ; 30) GR	E	48.528 87	−0.5	5455
* 2018	R (1, 2 ; 31) GR	←	(1, 2 ; 30) GR	E	48.543 38	1.8	5248
* 2019	R (0, 10 ; 31) GR	←	(0, 10 ; 30) GR	A	48.543 38	−0.5	5248
* 2020	R (0, −8 ; 31) GR	←	(0, −8 ; 30) GR	E	48.565 32	−2.0	3502
* 2021	R (0, −10 ; 31) GR	←	(0, −10 ; 30) GR	E	48.568 73	−0.3	3058
* 2022	R (0, −9 ; 31) GR	←	(0, −9 ; 30) GR	E	48.574 20	−0.1	3010
* 2023	R (0, 9 ; 31) GR	←	(0, 9 ; 30) GR	A	48.579 92	−1.0	5180
* 2024	R (0, 7 ; 31) GR	←	(0, 7 ; 30) GR	A	48.583 46	−0.5	5784
* 2025	R (0, −7 ; 31) GR	←	(0, −7 ; 30) GR	E	48.584 96	1.3	4068

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 2026	R (0, 6 ; 31) GR	←	(0, 6 ; 30) GR	A	48.587 21	−0.5	6075
* 2027	R (0, 5 ; 31) GR	←	(0, 5 ; 30) GR	E	48.593 33	−2.6	5543
* 2028	R (0, 8 ; 31) GR	←	(0, 8 ; 30) GR	A	48.595 26	0.2	5070
* 2029	Q (1, 5 ; 31) GR	←	(1, 4 ; 31) GR	E	48.608 67	1.3	6356
* 2030	R (0, 6 ; 31) GR	←	(0, 6 ; 30) GR	E	48.608 67	−0.4	6356
* 2031	R (0, 1 ; 31) GR	←	(0, 1 ; 30) GR	E	48.610 90	−0.5	6161
* 2032	R (0, 7 ; 31) GR	←	(0, 7 ; 30) GR	E	48.612 24	1.7	6393
* 2033	R (0, −4 ; 31) GR	←	(0, −4 ; 30) GR	E	48.612 24	−2.1	6393
* 2034	R (0, −6 ; 31) GR	←	(0, −6 ; 30) GR	E	48.623 83	0.1	4615
* 2035	R (0, −3 ; 31) GR	←	(0, −3 ; 30) GR	E	48.629 42	0.5	4108
* 2036	R (0, 3 +; 31) GR	←	(0, 3 +; 30) GR	A	48.630 55	0.0	7539
* 2037	R (0, 5 ; 31) GR	←	(0, 5 ; 30) GR	A	48.630 55	−0.1	7539
* 2038	R (0, 4 ; 31) GR	←	(0, 4 ; 30) GR	E	48.630 55	−3.5	7539
2039	R (0, −5 ; 31) GR	←	(0, −5 ; 30) GR	E	48.645 85	6.6	8932
* 2040	R (0, 2 +; 19) GR	←	(0, 1 +; 18) GR	A	48.645 85	−0.7	8932
* 2041	P (2, −2 ; 18) GR	←	(2, −1 ; 19) GR	E	48.691 38	−1.4	2559
* 2042	R (0, 4 −; 31) GR	←	(0, 4 −; 30) GR	A	48.693 04	−2.2	5008
* 2043	R (0, 4 +; 31) GR	←	(0, 4 +; 30) GR	A	48.706 37	−2.9	5324
* 2044	P (1, −1 ; 18) GR	←	(1, 0 ; 19) GR	E	48.712 24	−0.9	5476
* 2045	R (0, 3 −; 31) GR	←	(0, 3 −; 30) GR	A	48.732 47	−0.7	5666
* 2046	R (1, 5 ; 31) GR	←	(1, 5 ; 30) GR	E	48.734 20	1.6	3560
* 2047	R (1, 4 ; 31) GR	←	(1, 4 ; 30) GR	A	48.734 20	−1.5	3560
* 2048	R (0, 2 +; 31) GR	←	(0, 2 +; 30) GR	A	48.739 79	−1.5	5759
* 2049	P (1, 2 ; 16) GR	←	(1, 1 ; 17) GR	E	48.774 90	−1.1	6084
* 2050	R (0, 3 ; 31) GR	←	(0, 3 ; 30) GR	E	48.785 66	0.8	5798
* 2051	R (0, 6 ; 12) GR	←	(0, 5 ; 11) GR	E	48.788 42	−1.0	9572
* 2052	R (0, 3 +; 26) GR	←	(0, 2 +; 25) GR	A	48.819 57	−0.6	6883
* 2053	R (0, −5 ; 15) GR	←	(0, −4 ; 14) GR	E	48.861 70	−0.5	9670
* 2054	R (0, −2 ; 21) GR	←	(0, −1 ; 20) GR	E	48.878 37	−0.6	6568
* 2055	Q (1, 5 ; 32) GR	←	(1, 4 ; 32) GR	E	48.910 79	0.1	3383
* 2056	R (0, 2 −; 23) GR	←	(0, 1 −; 22) GR	A	48.937 41	−0.8	8634
* 2057	P (1, 3 ; 11) GR	←	(1, 2 −; 12) GR	A	48.961 65	−0.1	5637
* 2058	Q (0, −7 ; 39) GR	←	(0, −6 ; 39) GR	E	48.967 03	0.9	5844
* 2059	P (1, 3 ; 11) GR	←	(1, 2 +; 12) GR	A	48.967 03	−0.2	5844
* 2060	R (1, 6 ; 10) GR	←	(1, 5 ; 9) GR	A	48.988 01	0.3	9330
2061	Q (0, −7 ; 38) GR	←	(0, −6 ; 38) GR	E	49.041 59	4.4	9133
* 2062	R (0, −4 ; 20) GR	←	(0, −3 ; 19) GR	E	49.041 59	0.1	9133
* 2063	P (0, 9 ; 11) GR	←	(0, 8 ; 12) GR	A	49.061 95	−1.1	3067
* 2064	R (0, −3 ; 15) GR	←	(0, −2 ; 14) GR	E	49.097 09	−1.3	9486
* 2065	Q (0, −7 ; 37) GR	←	(0, −6 ; 37) GR	E	49.110 74	0.8	3262
* 2066	R (0, 3 ; 20) GR	←	(0, 2 ; 19) GR	E	49.153 44	0.2	8862
* 2067	R (1, −7 ; 18) GR	←	(1, −6 ; 17) GR	E	49.164 87	0.2	6594
* 2068	Q (0, −7 ; 36) GR	←	(0, −6 ; 36) GR	E	49.175 25	0.5	2667
* 2069	R (0, 2 ; 31) GR	←	(0, 1 ; 30) GR	E	49.206 96	−0.8	5369
* 2070	Q (1, 5 ; 33) GR	←	(1, 4 ; 33) GR	E	49.225 28	0.0	3777
* 2071	Q (0, −7 ; 35) GR	←	(0, −6 ; 35) GR	E	49.235 25	0.5	4259
* 2072	Q (0, −7 ; 34) GR	←	(0, −6 ; 34) GR	E	49.290 07	1.5	3077
* 2073	Q (0, −7 ; 33) GR	←	(0, −6 ; 33) GR	E	49.340 90	−0.4	3571
* 2074	Q (0, −7 ; 32) GR	←	(0, −6 ; 32) GR	E	49.387 51	−1.7	3824
* 2075	R (0, 4 ; 10) GR	←	(0, 3 ; 9) GR	E	49.416 48	0.1	6198
* 2076	Q (0, −7 ; 31) GR	←	(0, −6 ; 31) GR	E	49.430 21	−0.5	4216
* 2077	Q (0, −7 ; 30) GR	←	(0, −6 ; 30) GR	E	49.469 14	−1.0	4546
* 2078	Q (0, −7 ; 29) GR	←	(0, −6 ; 29) GR	E	49.504 87	1.1	5951
* 2079	Q (0, −7 ; 28) GR	←	(0, −6 ; 28) GR	E	49.537 02	−0.7	5681
* 2080	R (1, 8 ; 8) GR	←	(1, 7 ; 7) GR	A	49.557 51	−0.3	5667
* 2081	Q (0, −7 ; 27) GR	←	(0, −6 ; 27) GR	E	49.566 17	−0.9	4438
2082	Q (0, 7 ; 24) GR	←	(0, 6 ; 24) GR	E	49.566 17	−4.7	4438
2083	Q (0, 7 ; 25) GR	←	(0, 6 ; 25) GR	E	49.566 17	−4.9	4438
2084	Q (0, 7 ; 23) GR	←	(0, 6 ; 23) GR	E	49.567 32	4.5	5333
* 2085	Q (0, 7 ; 26) GR	←	(0, 6 ; 26) GR	E	49.567 32	1.3	5333
* 2086	Q (0, 7 ; 22) GR	←	(0, 6 ; 22) GR	E	49.567 32	−1.5	5333
2087	Q (0, 7 ; 27) GR	←	(0, 6 ; 27) GR	E	49.567 32	−5.3	5333
2088	Q (0, 7 ; 21) GR	←	(0, 6 ; 21) GR	E	49.568 80	3.7	5926
2089	Q (0, 7 ; 28) GR	←	(0, 6 ; 28) GR	E	49.568 80	−5.0	5926
2090	Q (0, 7 ; 20) GR	←	(0, 6 ; 20) GR	E	49.570 55	8.9	9314
* 2091	Q (0, 7 ; 19) GR	←	(0, 6 ; 19) GR	E	49.570 55	−2.6	9314
2092	Q (0, 7 ; 29) GR	←	(0, 6 ; 29) GR	E	49.570 55	−6.7	9314
* 2093	Q (0, 7 ; 18) GR	←	(0, 6 ; 18) GR	E	49.572 17	−3.1	9198
* 2094	Q (0, 7 ; 30) GR	←	(0, 6 ; 30) GR	E	49.573 86	2.7	9704
* 2095	Q (0, 7 ; 17) GR	←	(0, 6 ; 17) GR	E	49.573 86	−1.5	9704
* 2096	Q (0, 7 ; 16) GR	←	(0, 6 ; 16) GR	E	49.575 74	−0.2	9824
2097	Q (0, 7 ; 31) GR	←	(0, 6 ; 31) GR	E	49.577 42	4.6	9837
* 2098	Q (0, 7 ; 15) GR	←	(0, 6 ; 15) GR	E	49.577 42	−1.1	9837
* 2099	Q (0, 7 ; 14) GR	←	(0, 6 ; 14) GR	E	49.579 26	−0.5	9845
2100	Q (0, 7 ; 32) GR	←	(0, 6 ; 32) GR	E	49.580 98	4.1	9909



Index	upper state						lower state							$\tilde{\nu}$	$\delta\tilde{\nu}\cdot 10^4$	Int.
	T	$(n,$	K	; $J)$	v		$(n,$	K	; $J)$	v		σ		/cm^{-1}	/cm^{-1}	/a.u.
* 2101	Q	(0,	7	; 13)	GR	←	(0,	6	; 13)	GR		E		49.580 98	−0.8	9909
* 2102	Q	(0,	7	; 12)	GR	←	(0,	6	; 12)	GR		E		49.582 79	−1.0	9585
* 2103	Q	(0,	7	; 33)	GR	←	(0,	6	; 33)	GR		E		49.584 55	0.0	9185
* 2104	Q	(0,	7	; 11)	GR	←	(0,	6	; 11)	GR		E		49.584 55	−0.6	9185
* 2105	Q	(0,	7	; 10)	GR	←	(0,	6	; 10)	GR		E		49.586 26	−1.2	8841
* 2106	Q	(0,	7	; 9)	GR	←	(0,	6	; 9)	GR		E		49.587 96	0.8	8363
2107	Q	(0,	7	; 8)	GR	←	(0,	6	; 8)	GR		E		49.589 92	5.4	8653
* 2108	Q	(0,	7	; 34)	GR	←	(0,	6	; 34)	GR		E		49.589 92	−0.3	8653
2109	Q	(0,	7	; 7)	GR	←	(0,	6	; 7)	GR		E		49.589 92	−8.4	8653
* 2110	Q	(0,	−7	; 26)	GR	←	(0,	−6	; 26)	GR		E		49.592 72	−0.5	6614
2111	Q	(0,	7	; 35)	GR	←	(0,	6	; 35)	GR		E		49.595 07	−3.7	3186
* 2112	Q	(0,	7	; 36)	GR	←	(0,	6	; 36)	GR		E		49.602 18	−0.3	3584
* 2113	R	(0,	1	$^+$; 28)	GR	←	(0,	0	$^+$; 27)	GR		A		49.607 57	−0.6	8908
* 2114	R	(0,	5	; 6)	GR	←	(0,	4	; 5)	GR		A		49.611 16	0.8	4579
* 2115	P	(0,	−10	; 15)	GR	←	(0,	−9	; 16)	GR		E		49.613 74	2.3	1251
* 2116	Q	(0,	−7	; 25)	GR	←	(0,	−6	; 25)	GR		E		49.616 28	−1.3	7448
* 2117	Q	(0,	−7	; 24)	GR	←	(0,	−6	; 24)	GR		E		49.637 56	−0.5	5627
* 2118	R	(0,	0	; 32)	GR	←	(0,	0	; 31)	GR		E		49.637 56	−1.2	5627
* 2119	R	(0,	1	$^+$; 32)	GR	←	(0,	1	$^+$; 31)	GR		A		49.644 42	0.4	8080
* 2120	Q	(0,	−7	; 23)	GR	←	(0,	−6	; 23)	GR		E		49.656 52	−0.5	7700
* 2121	R	(0,	1	; 26)	GR	←	(0,	0	; 25)	GR		E		49.667 72	−0.6	5868
* 2122	Q	(0,	−7	; 22)	GR	←	(0,	−6	; 22)	GR		E		49.673 30	−1.1	8378
2123	R	(0,	4	; 18)	GR	←	(0,	3	$^-$; 17)	GR		A		49.675 11	−5.2	9520
* 2124	Q	(0,	−7	; 21)	GR	←	(0,	−6	; 21)	GR		E		49.688 24	−0.5	7670
* 2125	R	(0,	4	; 18)	GR	←	(0,	3	$^+$; 17)	GR		A		49.696 18	1.9	9457
* 2126	Q	(0,	−7	; 20)	GR	←	(0,	−6	; 20)	GR		E		49.701 38	−0.4	8294
* 2127	Q	(0,	−7	; 19)	GR	←	(0,	−6	; 19)	GR		E		49.712 84	−1.3	8418
* 2128	Q	(0,	−7	; 18)	GR	←	(0,	−6	; 18)	GR		E		49.722 85	−0.9	8 50
* 2129	Q	(0,	−7	; 17)	GR	←	(0,	−6	; 17)	GR		E		49.731 49	−0.7	8966
* 2130	Q	(0,	−7	; 16)	GR	←	(0,	−6	; 16)	GR		E		49.738 88	−0.8	8625
* 2131	Q	(0,	−7	; 15)	GR	←	(0,	−6	; 15)	GR		E		49.745 23	−1.5	8936
* 2132	Q	(0,	−7	; 14)	GR	←	(0,	−6	; 14)	GR		E		49.750 61	−0.5	8821
* 2133	Q	(0,	−7	; 13)	GR	←	(0,	−6	; 13)	GR		E		49.755 12	0.3	9075
* 2134	Q	(0,	−7	; 12)	GR	←	(0,	−6	; 12)	GR		E		49.758 89	−0.2	9233
* 2135	Q	(0,	−7	; 11)	GR	←	(0,	−6	; 11)	GR		E		49.762 08	0.9	8756
* 2136	Q	(0,	−7	; 10)	GR	←	(0,	−6	; 10)	GR		E		49.764 63	0.1	9815
2137	Q	(0,	−7	; 9)	GR	←	(0,	−6	; 9)	GR		E		49.765 83	−7.3	9339
* 2138	R	(1,	6	; 32)	GR	←	(1,	6	; 31)	GR		A		49.767 81	1.2	8535
* 2139	Q	(0,	−7	; 8)	GR	←	(0,	−6	; 8)	GR		E		49.767 81	−3.6	8535
* 2140	R	(0,	−1	; 32)	GR	←	(0,	−1	; 31)	GR		E		49.769 21	−2.1	7656
* 2141	Q	(0,	−7	; 7)	GR	←	(0,	−6	; 7)	GR		E		49.769 21	−2.3	7656
* 2142	R	(0,	7	; 9)	GR	←	(0,	6	; 8)	GR		A		49.845 10	−0.4	5262
* 2143	R	(1,	1	$^+$; 32)	GR	←	(1,	1	$^+$; 31)	GR		A		49.926 54	0.0	3569
* 2144	R	(1,	0	; 32)	GR	←	(1,	0	; 31)	GR		E		49.985 05	0.1	3686
* 2145	R	(1,	1	; 32)	GR	←	(1,	1	; 31)	GR		E		49.994 14	1.6	4067
* 2146	R	(1,	−3	; 32)	GR	←	(1,	−3	; 31)	GR		E		49.997 96	−0.7	5615
* 2147	R	(1,	1	$^-$; 32)	GR	←	(1,	1	$^-$; 31)	GR		A		50.013 94	0.5	3075
* 2148	R	(0,	6	; 7)	GR	←	(0,	5	; 6)	GR		A		50.028 39	−0.2	5143
* 2149	R	(0,	5	; 14)	GR	←	(0,	4	; 13)	GR		E		50.034 57	0.4	9512
2150	R	(1,	7	; 32)	GR	←	(1,	7	; 31)	GR		A		50.034 57	−5.1	9512
* 2151	R	(0,	−1	; 34)	GR	←	(0,	0	; 33)	GR		E		50.043 55	−0.6	6038
* 2152	R	(0,	2	; 32)	GR	←	(0,	2	; 31)	GR		E		50.071 64	0.8	5951
* 2153	R	(0,	11	; 32)	GR	←	(0,	11	; 31)	GR		A		50.074 00	−1.2	3152
* 2154	R	(0,	10	; 32)	GR	←	(0,	10	; 31)	GR		A		50.094 34	0.1	3542
* 2155	R	(1,	2	; 32)	GR	←	(1,	2	; 31)	GR		E		50.099 21	1.4	4009
* 2156	R	(0,	−8	; 32)	GR	←	(0,	−8	; 31)	GR		E		50.117 43	−1.4	2990
* 2157	R	(0,	−10	; 32)	GR	←	(0,	−10	; 31)	GR		E		50.122 55	0.4	2642
* 2158	R	(0,	−9	; 32)	GR	←	(0,	−9	; 31)	GR		E		50.128 02	−1.2	3454
2159	R	(0,	9	; 32)	GR	←	(0,	9	31)	GR		A		50.134 61	3.5	4664
* 2160	R	(0,	7	; 32)	GR	←	(0,	7	; 31)	GR		A		50.137 10	1.7	5344
2161	R	(0,	−7	; 32)	GR	←	(0,	−7	; 31)	GR		E		50.137 10	−8.7	5344
* 2162	R	(0,	6	; 32)	GR	←	(0,	6	; 31)	GR		A		50.140 18	−1.8	6036
* 2163	R	(0,	5	; 32)	GR	←	(0,	5	; 31)	GR		E		50.146 75	−1.3	4903
* 2164	R	(0,	8	; 32)	GR	←	(0,	8	; 31)	GR		A		50.150 44	−0.7	5637
* 2165	R	(0,	6	; 32)	GR	←	(0,	6	; 31)	GR		E		50.164 24	−0.6	4790
* 2166	R	(0,	−4	; 32)	GR	←	(0,	−4	; 31)	GR		E		50.167 76	1.2	6868
* 2167	R	(0,	7	; 32)	GR	←	(0,	7	; 31)	GR		E		50.167 76	−1.5	6868
* 2168	R	(0,	1	; 32)	GR	←	(0,	1	; 31)	GR		E		50.172 23	−2.5	5012
* 2169	R	(0,	−6	; 32)	GR	←	(0,	−6	; 31)	GR		E		50.180 50	−0.4	4936
* 2170	R	(0,	−3	; 32)	GR	←	(0,	−3	; 31)	GR		E		50.186 38	1.0	3230
* 2171	R	(0,	3	$^+$; 32)	GR	←	(0,	3	$^+$; 31)	GR		A		50.187 12	0.0	7598
* 2172	R	(0,	5	; 32)	GR	←	(0,	5	; 31)	GR		A		50.187 12	−0.9	7598
* 2173	R	(0,	4	; 32)	GR	←	(0,	4	; 31)	GR		E		50.187 12	−2.8	7598
* 2174	R	(0,	3	$^-$; 26)	GR	←	(0,	2	$^-$; 25)	GR		A		50.199 65	−1.2	6729
* 2175	R	(0,	2	$^-$; 24)	GR	←	(0,	1	$^-$; 23)	GR		A		50.203 76	−0.3	8635

Index	upper state						lower state							$\tilde{\nu}$	$\delta\tilde{\nu}\cdot 10^4$	Int.
	T	$(n,$	K	; $J)$	v		$(n,$	K	; $J)$	v		σ		/cm^{-1}	/cm^{-1}	/a.u.
* 2176	R	(0,	−5	; 32)	GR	←	(0,	−5	; 31)	GR		E		50.203 76	−2.8	8635
* 2177	P	(1,	−1	; 17)	GR	←	(1,	0	; 18)	GR		E		50.252 32	−0.5	5726
* 2178	R	(0,	4	$^-$; 32)	GR	←	(0,	4	$^-$; 31)	GR		A		50.255 01	−1.6	4948
* 2179	P	(2,	−2	; 17)	GR	←	(2,	−1	; 18)	GR		E		50.259 05	1.6	2676
* 2180	R	(0,	4	$^+$; 32)	GR	←	(0,	4	$^+$; 31)	GR		A		50.271 37	1.3	4744
* 2181	R	(1,	5	; 32)	GR	←	(1,	5	; 31)	GR		E		50.299 16	0.9	3915
* 2182	R	(0,	3	$^+$; 27)	GR	←	(0,	2	$^+$; 26)	GR		A		50.300 81	−0.1	8074
* 2183	R	(1,	4	; 32)	GR	←	(1,	4	; 31)	GR		A		50.302 95	0.0	5610
* 2184	R	(0,	3	$^-$; 32)	GR	←	(0,	3	$^-$; 31)	GR		A		50.302 95	−0.3	5610
* 2185	P	(1,	2	; 15)	GR	←	(1,	1	; 16)	GR		E		50.325 54	−0.4	6149
* 2186	R	(0,	3	; 32)	GR	←	(0,	3	; 31)	GR		E		50.354 28	−0.3	5838
* 2187	R	(0,	6	; 13)	GR	←	(0,	5	; 12)	GR		E		50.356 55	−0.6	9907
* 2188	P	(1,	10	; 21)	GR	←	(1,	9	; 22)	GR		A		50.426 21	−1.2	2326
* 2189	R	(0,	−5	; 16)	GR	←	(0,	−4	; 15)	GR		E		50.432 68	−0.1	9553
* 2190	P	(1,	3	; 10)	GR	←	(1,	2	$^-$; 11)	GR		A		50.525 76	0.1	6003
* 2191	P	(1,	3	; 10)	GR	←	(1,	2	$^+$; 11)	GR		A		50.529 57	−1.2	6070
* 2192	R	(0,	2	$^+$; 20)	GR	←	(0,	1	$^+$; 19)	GR		A		50.539 51	0.8	8825
* 2193	R	(1,	6	; 11)	GR	←	(1,	5	; 10)	GR		A		50.541 61	0.1	4754
* 2194	R	(0,	−4	; 21)	GR	←	(0,	−3	; 20)	GR		E		50.600 69	−0.7	8764
* 2195	R	(0,	−3	; 16)	GR	←	(0,	−2	; 15)	GR		E		50.609 69	−0.4	9350
* 2196	P	(0,	9	; 10)	GR	←	(0,	8	; 11)	GR		A		50.634 76	−0.2	2835
* 2197	R	(0,	2	; 32)	GR	←	(0,	1	; 31)	GR		E		50.667 72	0.7	5131
* 2198	R	(1,	−7	; 19)	GR	←	(1,	−6	; 18)	GR		E		50.697 60	0.2	6438
* 2199	R	(0,	3	; 21)	GR	←	(0,	2	; 20)	GR		E		50.745 75	0.0	8507
* 2200	R	(0,	1−2	; 22)	GR	←	(0,	−1	; 21)	GR		E		50.787 76	−0.6	5710
* 2201	R	(0,	1	$^+$; 29)	GR	←	(0,	0	$^+$; 28)	GR		A		50.924 23	−0.2	8311
* 2202	R	(0,	4	; 11)	GR	←	(0,	3	; 10)	GR		E		50.983 76	0.2	9843
* 2203	R	(1,	8	; 9)	GR	←	(1,	7	; 8)	GR		A		51.110 16	0.8	4988
* 2204	R	(0,	0	; 33)	GR	←	(0,	0	; 32)	GR		E		51.168 10	−0.2	5286
* 2205	Q	(0,	9	; 33)	GR	←	(0,	8	; 33)	GR		E		51.177 76	−0.2	2979
* 2206	R	(0,	1	$^+$; 33)	GR	←	(0,	1	$^+$; 32)	GR		A		51.183 66	0.0	4991
2207	R	(0,	5	; 7)	GR	←	(0,	4	; 6)	GR		A		51.184 64	4.7	5108
2208	P	(0,	−10	; 14)	GR	←	(0,	−9	; 15)	GR		E		51.184 84	4.7	6017
* 2209	Q	(0,	9	; 32)	GR	←	(0,	8	; 32)	GR		E		51.220 15	0.1	3458
* 2210	R	(0,	4	$^-$; 19)	GR	←	(0,	3	$^-$; 18)	GR		A		51.245 54	−2.5	9178
* 2211	Q	(0,	9	; 31)	GR	←	(0,	8	; 31)	GR		E		51.253 03	−1.0	3314
* 2212	R	(0,	4	$^+$; 19)	GR	←	(0,	3	$^+$; 18)	GR		A		51.275 17	2.7	9250
* 2213	Q	(0,	9	; 30)	GR	←	(0,	8	; 30)	GR		E		51.282 89	−1.6	3518
* 2214	R	(0,	−1	; 33)	GR	←	(0,	−1	; 32)	R		E		51.296 91	0.0	5335
* 2215	R	(1,	6	; 33)	GR	←	(1,	6	; 32)	GR		A		51.302 54	−0.1	3689
* 2216	Q	(0,	9	; 29)	GR	←	(0,	8	; 29)	GR		E		51.310 90	−0.8	3920
* 2217	Q	(0,	9	; 28)	GR	←	(0,	8	; 28)	GR		E		51.336 83	−1.6	4446
* 2218	Q	(0,	9	; 27)	GR	←	(0,	8	; 27)	GR		E		51.360 92	−1.0	4457
* 2219	Q	(0,	9	; 26)	GR	←	(0,	8	; 26)	GR		E		51.383 38	−0.2	5056
* 2220	Q	(0,	9	; 25)	GR	←	(0,	8	; 25)	GR		E		51.404 18	−0.3	5769
* 2221	R	(0,	7	; 10)	GR	←	(0,	6	; 9)	GR		A		51.413 37	−0.5	5358
* 2222	Q	(0,	9	; 24)	GR	←	(0,	8	; 24)	GR		E		51.423 56	−1.6	5709
* 2223	Q	(0,	9	; 23)	GR	←	(0,	8	; 23)	GR		E		51.441 44	−1.3	6099
* 2224	Q	(0,	9	; 22)	GR	←	(0,	8	; 22)	GR		E		51.458 58	3.4	8456
* 2225	R	(0,	2	$^-$; 25)	GR	←	(0,	1	$^-$; 24)	GR		A		51.458 58	−3.4	8456
* 2226	Q	(0,	9	; 21)	GR	←	(0,	8	; 21)	GR		E		51.473 38	−0.4	6766
* 2227	Q	(0,	9	; 20)	GR	←	(0,	8	; 20)	GR		E		51.487 49	−0.6	6854
* 2228	Q	(0,	9	; 19)	GR	←	(0,	8	; 19)	GR		E		51.500 55	−0.8	7393
* 2229	Q	(0,	9	; 18)	GR	←	(0,	8	; 18)	GR		E		51.512 45	−0.4	7368
* 2230	Q	(0,	9	; 17)	GR	←	(0,	8	; 17)	GR		E		51.523 43	−0.5	7698
* 2231	Q	(0,	9	; 16)	GR	←	(0,	8	; 16)	GR		E		51.533 39	−1.1	8237
* 2232	Q	(0,	9	; 15)	GR	←	(0,	8	; 15)	GR		E		51.542 52	−0.9	8289
* 2233	R	(1,	−3	; 33)	GR	←	(1,	−3	; 32)	GR		E		51.544 40	2.4	5081
* 2234	Q	(0,	9	; 14)	GR	←	(0,	8	; 14)	GR		E		51.550 97	−0.6	7790
* 2235	Q	(0,	9	; 13)	GR	←	(0,	8	; 13)	GR		E		51.558 44	−1.4	7976
* 2236	Q	(0,	9	; 12)	GR	←	(0,	8	; 12)	GR		E		51.565 16	−0.8	7006
* 2237	Q	(0,	9	; 11)	GR	←	(0,	8	; 11)	GR		E		51.571 31	−0.1	6868
* 2238	Q	(0,	9	; 10)	GR	←	(0,	8	; 10)	GR		E		51.576 79	−0.8	6180
* 2239	Q	(0,	9	; 9)	GR	←	(0,	8	; 9)	GR		E		51.581 70	0.1	4912
* 2240	R	(1,	7	; 33)	GR	←	(1,	7	; 32)	GR		A		51.585 69	0.5	3154
* 2241	R	(0,	5	; 15)	GR	←	(0,	4	; 14)	GR		E		51.598 71	0.1	5982
* 2242	R	(0,	6	; 8)	GR	←	(0,	5	; 7)	GR		A		51.600 06	0.2	9765
* 2243	R	(0,	2	; 33)	GR	←	(0,	2	; 32)	GR		E		51.613 15	1.4	5316
* 2244	R	(0,	11	; 33)	GR	←	(0,	11	; 32)	GR		A		51.623 07	0.3	2930
* 2245	R	(0,	1	; 27)	GR	←	(0,	0	; 26)	GR		E		51.636 12	0.2	5597
* 2246	R	(0,	10	; 33)	GR	←	(0,	10	; 32)	GR		A		51.644 41	2.8	3656
* 2247	R	(1,	2	; 33)	GR	←	(1,	2	; 32)	GR		E		51.653 84	−0.5	4248
* 2248	R	(0,	−8	; 33)	GR	←	(0,	−8	; 32)	GR		E		51.668 32	−1.0	3310
* 2249	R	(0,	−10	; 33)	GR	←	(0,	−10	; 32)	GR		E		51.675 13	1.3	2448
* 2250	R	(0,	−9	; 33)	GR	←	(0,	−9	; 32)	GR		E		51.680 67	−1.2	2713



Index	upper state T (n, K ; J) v		lower state (n, K ; J) v		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 2251	R (0, 9 ; 33) GR	← (0, 9 ; 32) GR	A	51.687 11	1.0	4763
* 2252	R (0, 7 ; 33) GR	← (0, 7 ; 32) GR	A	51.689 39	1.7	5915
* 2253	R (0, −7 ; 33) GR	← (0, −7 ; 32) GR	E	51.689 39	−1.2	5915
* 2254	R (0, 6 ; 33) GR	← (0, 6 ; 32) GR	A	51.691 75	−0.4	6531
* 2255	R (0, −1 ; 35) GR	← (0, 0 ; 34) GR	E	51.693 65	1.1	5329
* 2256	R (0, 5 ; 33) GR	← (0, 5 ; 32) GR	E	51.698 56	−2.0	6232
* 2257	R (0, 8 ; 33) GR	← (0, 8 ; 32) GR	A	51.704 17	1.7	5273
* 2258	R (0, 6 ; 33) GR	← (0, 6 ; 32) GR	E	51.718 92	−0.1	3726
* 2259	R (0, −4 ; 33) GR	← (0, −4 ; 32) GR	E	51.721 36	−1.1	4695
* 2260	R (0, 1 ; 33) GR	← (0, 1 ; 32) GR	E	51.723 42	0.0	5849
* 2261	R (0, −6 ; 33) GR	← (0, −6 ; 32) GR	E	51.736 26	0.0	4071
2262	R (0, 5 ; 33) GR	← (0, 5 ; 32) GR	A	51.742 73	5.3	8006
* 2263	R (0, −3 ; 33) GR	← (0, −3 ; 32) GR	E	51.742 73	1.5	8006
* 2264	R (0, 3 +; 33) GR	← (0, 3 +; 32) GR	A	51.742 73	0.0	8006
* 2265	R (0, 4 ; 33) GR	← (0, 4 ; 32) GR	E	51.742 73	−0.8	8006
* 2266	R (0 −5 ; 33) GR	← (0, −5 ; 32) GR	E	51.761 72	−1.3	4591
* 2267	P (1, −1 ; 16) GR	← (1, 0 ; 17) GR	E	51.796 39	−0.6	6188
* 2268	R (0, 4 −; 33) GR	← (0, 4 −; 32) GR	A	51.816 03	0.8	4594
* 2269	P (2, −2 ; 16) GR	← (2, −1 ; 17) GR	E	51.826 31	−0.3	2996
* 2270	R (0, 4 +; 33) GR	← (0, 4 +; 32) GR	A	51.835 97	0.0	4560
* 2271	R (0, 3 −; 33) GR	← (0, 3 −; 32) GR	A	51.873 71	0.3	5409
* 2272	R (1, 4 ; 33) GR	← (1, 4 ; 32) GR	A	51.873 71	0.0	5409
* 2273	P (1, 2 ; 14) GR	← (1, 1 ; 15) GR	E	51.879 24	−0.7	6397
* 2274	R (0, 3 −; 27) GR	← (0, 2 −; 26) GR	A	51.918 98	−0.2	6536
* 2275	R (0, 3 ; 33) GR	← (0, 3 ; 32) GR	E	51.921 44	0.6	5137
* 2276	R (0, 6 ; 14) GR	← (0, 5 ; 13) GR	E	51.924 26	−0.5	9620
* 2277	P (1, 10 ; 20) GR	← (1, 9 ; 21) GR	A	51.984 99	−1.6	2198
* 2278	R (0, −5 ; 17) GR	← (0, −4 ; 16) GR	E	52.003 85	−0.6	9435
* 2279	R (1, 6 ; 12) GR	← (1, 5 ; 11) GR	A	52.090 33	1.0	9427
* 2280	P (1, 3 ; 9) GR	← (1, 2 −; 10) GR	A	52.091 29	0.1	3312
* 2281	P (1, 3 ; 9) GR	← (1, 2 +; 10) GR	A	52.093 94	−0.3	5809
* 2282	R (0, −3 ; 17) GR	← (0, −2 ; 16) GR	E	52.107 98	−0.6	9623
* 2283	R (0, 2 ; 33) GR	← (0, 1 ; 32) GR	E	52.107 98	−2.0	9623
* 2284	R (0, −4 ; 22) GR	← (0, −3 ; 21) GR	E	52.158 59	−0.5	8506
* 2285	P (0, 9 ; 9) GR	← (0, 8 ; 10) GR	A	52.207 61	0.1	2342
* 2286	R (1, −7 ; 20) GR	← (1, −6 ; 19) GR	E	52.224 67	−0.5	6272
* 2287	R (0, 1 +; 30) GR	← (0, 0 +; 29) GR	A	52.241 28	0.0	7711
* 2288	R (0, 3 ; 22) GR	← (0, 2 ; 21) GR	E	52.352 50	−0.5	7882
* 2289	R (0, 2 +; 21) GR	← (0, 1 +; 20) GR	A	52.455 97	−0.7	8105
* 2290	R (0, 4 ; 12) GR	← (0, 3 ; 11) GR	E	52.548 81	−0.4	6511
* 2291	R (1, 8 ; 10) GR	← (1, 7 ; 9) GR	A	52.660 61	−0.4	4832
* 2292	R (0, 0 ; 34) GR	← (0, 0 ; 33) GR	E	52.697 52	0.7	5412
* 2293	R (0, 2 −; 26) GR	← (0, 1 −; 25) GR	A	52.703 57	−2.4	8095
* 2294	R (0, 1 +; 34) GR	← (0, 1 +; 33) GR	A	52.720 89	0.0	6303
* 2295	R (0, −2 ; 23) GR	← (0, −1 ; 22) GR	E	52.740 24	−0.5	5488
2296	P (0, −10 ; 13) GR	← (0, −9 ; 14) GR	E	52.756 65	9.6	7326
* 2297	R (0, 5 ; 8) GR	← (0, 4 ; 7) GR	A	52.756 66	−0.5	5488
* 2298	R (0, 4 −; 20) GR	← (0, 3 −; 19) GR	A	52.815 35	−0.7	8969
* 2299	R (0, −1 ; 34) GR	← (0, −1 ; 33) GR	E	52.822 88	0.0	5055
* 2300	R (1, 6 ; 34) GR	← (1, 6 ; 33) GR	A	52.836 71	−1.3	3387
* 2301	R (0, 4 +; 20) GR	← (0, 3 +; 19) GR	A	52.856 10	−0.6	9051
* 2302	P (2, −5 ; 27) GR	← (1, −6 ; 28) GR	E	52.916 04	−4.5	2783
* 2303	R (0, 7 ; 11) GR	← (0, 6 ; 10) GR	A	52.980 91	0.2	5091
* 2304	R (1, 7 ; 34) GR	← (1, 7 ; 33) GR	A	53.134 94	−1.9	3028
* 2305	R (0, 2 ; 34) GR	← (0, 2 ; 33) GR	E	53.153 39	−0.7	5676
* 2306	R (0, 5 ; 16) GR	← (0, 4 ; 15) GR	E	53.161 32	−0.7	9524
* 2307	R (0, 11 ; 34) GR	← (0, 11 ; 33) GR	A	53.170 83	0.2	4904
* 2308	R (0, 6 ; 9) GR	← (0, 5 ; 8) GR	A	53.170 83	−1.2	4904
* 2309	R (0, 10 ; 34) GR	← (0, 10 ; 33 GR	A	53.192 07	1.8	3110
* 2310	R (1, 2 ; 34) GR	← (1, 2 ; 33) GR	E	53.207 70	−1.5	3497
* 2311	R (0, −8 ; 34) GR	← (0, −8 ; 33) GR	E	53.217 71	0.5	3035
2312	R (0, −9 ; 34) GR	← (0, −9 ; 33) GR	E	53.232 47	2.9	3041
* 2313	R (0, 7 ; 34) GR	← (0, 7 ; 33) GR	A	53.239 84	−0.1	5994
* 2314	R (0, −7 ; 34) GR	← (0, −7 ; 33) GR	E	53.239 84	−0.7	5994
* 2315	R (0, 6 ; 34) GR	← (0, 6 ; 33) GR	A	53.241 84	0.2	4889
* 2316	R (0, 5 ; 34) GR	← (0, 5 ; 33) GR	E	53.249 41	0.0	3914
* 2317	R (0, 8 ; 34) GR	← (0, 8 ; 33) GR	A	53.257 21	−1.3	4063
2318	R (0, 6 ; 34) GR	← (0, 6 ; 33) GR	E	53.272 50	7.7	6756
2319	R (0, 1 ; 34) GR	← (0, 1 ; 33) GR	E	53.274 85	0.0	5076
* 2320	Q (0, 8 ; 20) GR	← (0, 7 ; 20) GR	A	53.274 88	−0.3	0
* 2321	Q (0, 8 ; 19) GR	← (0, 7 ; 19) GR	A	53.274 88	−2.9	0
2322	Q (0, 8 ; 21) GR	← (0, 7 ; 21) GR	A	53.274 88	−4.6	0
2323	Q (0, 8 ; 18) GR	← (0, 7 ; 18) GR	A	53.276 39	4.1	0
* 2324	Q (0, 8 ; 22) GR	← (0, 7 ; 22) GR	A	53.276 33	1.3	0
2325	Q (0, 8 ; 17) GR	← (0, 7 ; 17) GR	A	53.277 89	7.1	0

Index	upper state T (n, K ; J) v		lower state (n, K ; J) v		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 2326	Q (0, 8 ; 23) GR	← (0, 7 ; 23) GR	A	53.277 89	−0.8	0
* 2327	Q (0, 8 ; 16) GR	← (0, 7 ; 16) GR	A	53.279 08	2.4	0
* 2328	Q (0, 8 ; 24) GR	← (0, 7 ; 24) GR	A	53.280 52	0.3	0
* 2329	Q (0, 8 ; 15) GR	← (0, 7 ; 15) GR	A	53.280 52	−0.8	0
* 2330	Q (0, 8 ; 14) GR	← (0, 7 ; 14) GR	A	53.282 99	2.5	0
2331	Q (0, 8 ; 25) GR	← (0, 7 ; 25) GR	A	53.284 74	5.7	0
* 2332	Q (0, 8 ; 13) GR	← (0, 7 ; 13) GR	A	53.284 74	−1.2	3131
* 2333	Q (0, 8 ; 12) GR	← (0, 7 ; 12) GR	A	53.287 22	0.3	9780
* 2334	Q (0, 8 ; 26) GR	← (0, 7 ; 26) GR	A	53.288 51	−2.3	1391
* 2335	Q (0, 8 ; 11) GR	← (0, 7 ; 11) GR	A	53.289 84	2.6	2282
* 2336	Q (0, 8 ; 10) GR	← (0, 7 ; 10) GR	A	53.291 87	−0.2	9527
* 2337	Q (0, 8 ; 9) GR	← (0, 7 ; 9) GR	A	53.294 30	0.4	3488
* 2338	Q (0, 8 ; 27) GR	← (0, 7 ; 27) GR	A	53.294 30	−2.9	3597
* 2339	Q (0, 8 ; 8) GR	← (0, 7 ; 8) GR	A	53.296 59	1.7	8821
* 2340	R (0, 4 ; 34) GR	← (0, 4 ; 33) GR	E	53.296 59	−2.6	8821
* 2341	Q (0, 8 ; 28) GR	← (0, 7 ; 28) GR	A	53.301 68	0.1	8020
* 2342	Q (0, 8 ; 29) GR	← (0, 7 ; 29) GR	A	53.310 18	−1.2	6864
* 2343	R (0, −5 ; 34) GR	← (0, −5 ; 33) GR	E	53.318 42	−0.5	4006
* 2344	Q (0, 8 ; 30) GR	← (0, 7 ; 30) GR	A	53.320 35	−0.1	6543
* 2345	Q (0, 8 ; 31) GR	← (0, 7 ; 31) GR	A	53.332 04	−0.5	5818
* 2346	R (0, −1 ; 36) GR	← (0, 0 ; 35) GR	E	53.338 64	−0.3	5244
* 2347	P (1, −1 ; 15) GR	← (1, 0 ; 16) GR	E	53.344 14	−0.6	6522
* 2348	Q (0, 8 ; 32) GR	← (0, 7 ; 32) GR	A	53.345 54	−1.3	5224
* 2349	Q (0, 8 ; 33) GR	← (0, 7 ; 33) GR	A	53.360 88	0.9	5146
* 2350	R (0, 4 −; 34) GR	← (0, 4 −; 33) GR	A	53.375 74	−0.2	4159
* 2351	Q (0, 8 ; 34) GR	← (0, 7 ; 34) GR	A	53.378 11	−1.7	4666
* 2352	P (2, −2 ; 15) GR	← (2, −1 ; 16) GR	E	53.393 97	0.5	3076
* 2353	Q (0, 8 ; 35) GR	← (0, 7 ; 35) GR	A	53.397 79	−0.9	4241
* 2354	R (0, 4 +; 34) GR	← (0, 4 +; 33) GR	A	53.400 04	0.0	4127
* 2355	Q (0, 8 ; 36) GR	← (0, 7 ; 36) GR	A	53.419 71	0.4	3797
* 2356	P (1, 2 ; 13) GR	← (1, 1 ; 14) GR	E	53.435 99	0.3	7401
* 2357	R (1, 4 ; 34) GR	← (1, 4 ; 33) GR	A	53.443 40	0.0	4672
* 2358	Q (0, 8 ; 37) GR	← (0, 7 ; 37) GR	A	53.443 40	−0.7	4672
* 2359	Q (0, 8 ; 38) GR	← (0, 7 ; 38) GR	A	53.470 69	1.4	2985
* 2360	R (0, 3 ; 34) GR	← (0, 3 ; 33) GR	E	53.487 26	−0.9	4695
* 2361	R (0, 6 ; 15) GR	← (0, 5 ; 14) GR	E	53.491 56	−0.3	9794
* 2362	P (1, 10 ; 19) GR	← (1, 9 ; 20) GR	A	53.547 74	0.2	2990
* 2363	R (0, 1 +; 31) GR	← (0, 0 +; 30) GR	A	53.559 34	−0.3	7779
* 2364	R (0, −5 ; 18) GR	← (0, −4 ; 17) GR	E	53.575 41	0.2	9277
* 2365	R (0, −3 ; 18) GR	← (0, −2 ; 17) GR	E	53.589 62	−0.1	9353
* 2366	R (0, 1 ; 28) GR	← (0, 0 ; 27) GR	E	53.624 00	−0.4	4663
* 2367	R (1, 6 ; 13) GR	← (1, 5 ; 12) GR	A	53.632 96	0.1	9665
* 2368	P (1, 3 ; 8) GR	← (1, 2 −; 9) GR	A	53.658 23	1.3	7930
* 2369	R (0, 3 −; 28) GR	← (0, 2 −; 27) GR	A	53.658 23	−2.9	7930
* 2370	P (1, 3 ; 8) GR	← (1, 2 +; 9) GR	A	53.659 80	−0.9	5705
* 2371	R (1, 5 ; 5) GR	← (1, 4 ; 4) GR	E	53.692 63	−0.5	9131
* 2372	R (0, −4 ; 23) GR	← (0, −3 ; 22) GR	E	53.714 93	−0.7	8372
* 2373	R (1, −7 ; 21) GR	← (1, −6 ; 20) GR	E	53.745 59	−0.9	6283
* 2374	R (0, 2 −; 27) GR	← (0, 1 −; 26) GR	A	53.938 91	−0.9	7876
* 2375	R (0, 3 ; 23) GR	← (0, 2 ; 22) GR	E	53.976 09	0.0	7785
* 2376	R (0, 4 ; 13) GR	← (0, 3 ; 12) GR	E	54.111 12	−0.6	9755
* 2377	R (1, 8 ; 11) GR	← (1, 7 ; 10) GR	A	54.209 05	0.1	4955
* 2378	R (0, 0 ; 35) GR	← (0, 0 ; 34) GR	E	54.225 50	−0.6	4632
* 2379	P (0, −10 ; 12) GR	← (0, −9 ; 13) GR	E	54.327 90	2.6	4502
* 2380	R (0, 5 ; 9) GR	← (0, 4 ; 8) GR	A	54.328 54	−0.5	5252
* 2381	R (0, −1 ; 35) GR	← (0, −1 ; 34) GR	E	54.347 40	0.2	4515
* 2382	R (0, 4 −; 21) GR	← (0, 3 −; 20) GR	A	54.384 18	−0.5	8981
* 2383	R (0, 2 +; 22) GR	← (0, 1 +; 21) GR	A	54.396 13	−0.3	7785
* 2384	R (0, 4 +; 21) GR	← (0, 3 +; 20) GR	A	54.439 48	−0.2	9066
* 2385	P (2, −5 ; 26) GR	← (1, −6 ; 27) GR	E	54.471 86	0.2	2597
* 2386	R (0, 7 ; 12) GR	← (0, 6 ; 11) GR	A	54.547 65	−0.3	9882
* 2387	R (0, 2 ; 35) GR	← (0, 2 ; 34) GR	E	54.693 17	0.5	5888
* 2388	R (0, 5 ; 17) GR	← (0, 4 ; 16) GR	E	54.722 29	−0.2	9562
* 2389	R (0, −2 ; 24) GR	← (0, −1 ; 23) GR	E	54.736 52	−0.9	5757
* 2390	R (0, 6 ; 10) GR	← (0, 5 ; 9) GR	A	54.740 92	−1.0	4640
* 2391	R (1, 2 ; 35) GR	← (1, 2 ; 34) GR	E	54.760 73	−1.0	3189
* 2392	R (0, −8 ; 35) GR	← (0, −8 ; 34) GR	E	54.765 45	−1.3	3007
* 2393	R (0, 7 ; 35) GR	← (0, 7 ; 34) GR	A	54.789 28	0.3	3014
* 2394	R (0, −6 ; 6) GR	← (0, −5 ; 5) GR	E	54.790 57	0.7	5858
2395	R (0, 6 ; 35) GR	← (0, 6 ; 34) GR	A	54.790 30	−4.8	9814
* 2396	R (0, 5 ; 35) GR	← (0, 5 ; 34) GR	E	54.798 65	−1.6	3865
* 2397	R (0, 8 ; 35) GR	← (0, 8 ; 34) GR	A	54.808 82	−0.3	3997
* 2398	R (0, 6 ; 35) GR	← (0, 6 ; 34) GR	E	54.823 88	−1.5	3720
* 2399	R (0, 1 ; 35) GR	← (0, 1 ; 34) GR	E	54.825 84	0.0	3930
* 2400	R (0, −6 ; 35) GR	← (0, −6 ; 34) GR	E	54.844 01	1.7	3499



Index	T	upper state $(n, K; J)^{v}$		lower state $(n, K; J)^{v}$		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 2401	R	(0, 4 ; 35)	GR	(0, 4 ; 34)	GR	E	54.850 15	2.1	5362
* 2402	R	(0, −5 ; 35)	GR	(0, −5 ; 34)	GR	E	54.874 05	−2.2	3549
* 2403	P	(1, −1 ; 14)	GR	(1, 0 ; 15)	GR	E	54.895 26	−0.5	7062
* 2404	R	(0, 4 $^-$; 35)	GR	(0, 4 $^-$; 34)	GR	A	54.934 26	0.0	3988
* 2405	P	(2, −2 ; 14)	GR	(2, −1 ; 15)	GR	E	54.961 62	−0.9	3005
* 2406	R	(0, 4 $^+$; 35)	GR	(0, 4 $^+$; 34)	GR	A	54.963 51	0.0	3947
* 2407	R	(0, −1 ; 37)	GR	(0, 0 ; 36)	GR	E	54.978 45	−0.3	4767
* 2408	P	(1, 2 ; 12)	GR	(1, 1 ; 13)	GR	E	54.994 91	−1.3	7217
* 2409	R	(1, 4 ; 35)	GR	(1, 4 ; 34)	GR	A	55.014 80	0.0	3963
* 2410	R	(0, 3 ; 35)	GR	(0, 3 ; 34)	GR	E	55.051 14	−0.1	2176
* 2411	R	(0, −3 ; 19)	GR	(0, −2 ; 18)	GR	E	55.052 61	0.5	6671
* 2412	R	(0, 6 ; 16)	GR	(0, 5 ; 15)	GR	E	55.058 46	−0.8	9712
* 2413	P	(1, 10 ; 18)	GR	(1, 9 ; 19)	GR	A	55.113 98	−1.2	2643
* 2414	R	(0, −5 ; 19)	GR	(0, −4 ; 18)	GR	E	55.147 48	0.0	9506
* 2415	R	(0, 2 $^-$; 28)	GR	(0, 1 $^-$; 27)	GR	A	55.165 32	−1.0	7377
* 2416	R	(1, 6 ; 14)	GR	(1, 5 ; 13)	GR	A	55.168 89	0.0	9554
* 2417	P	(1, 3 ; 7)	GR	(1, 2 $^-$; 8)	GR	A	55.225 66	−1.5	0
* 2418	P	(1, 3 ; 7)	GR	(1, 2 ; 8)	GR	A	55.226 14	−1.5	5701
* 2419	R	(1, −7 ; 22)	GR	(1, −6 ; 21)	GR	E	55.259 84	−0.3	6247
* 2420	R	(1, 5 ; 6)	GR	(1, 4 ; 5)	GR	E	55.263 55	0.4	9451
* 2421	R	(0, −4 ; 24)	GR	(0, −3 ; 23)	GR	E	55.269 74	−0.9	8272
2422	R	(0, 3 $^-$; 29)	GR	(0, 2 $^-$; 28)	GR	A	55.411 34	9.7	3508
* 2423	R	(0, −8 ; 8)	GR	(0, −7 ; 7)	GR	E	55.462 28	−0.4	9808
* 2424	R	(0, 3 ; 24)	GR	(0, 2 ; 23)	GR	E	55.618 19	−0.9	7315
* 2425	R	(0, 1 ; 29)	GR	(0, 0 ; 28)	GR	E	55.630 09	0.8	5172
* 2426	R	(0, 4 ; 14)	GR	(0, 3 ; 13)	GR	E	55.670 26	−0.1	9806
* 2427	R	(0, 0 ; 36)	GR	(0, 0 ; 35)	GR	E	55.752 31	−1.0	4331
* 2428	R	(1, 8 ; 12)	GR	(1, 7 ; 11)	GR	A	55.755 34	−0.1	4628
* 2429	P	(1, −5 ; 26)	GR	(1, −4 ; 27)	GR	E	55.773 21	−0.9	2493
* 2430	R	(0, −1 ; 36)	GR	(0, −1 ; 35)	GR	E	55.870 66	−0.4	5123
* 2431	P	(0, −10 ; 11)	GR	(0, −9 ; 12)	GR	E	55.899 53	0.0	7537
* 2432	R	(0, 5 ; 10)	GR	(0, 4 ; 9)	GR	A	55.899 69	0.1	4831
* 2433	R	(0, 4 $^-$; 22)	GR	(0, 3 $^-$; 21)	GR	A	55.951 80	−0.5	8653
* 2434	R	(0, 4 $^+$; 22)	GR	(0, 3 $^+$; 21)	GR	A	56.025 66	−0.3	8905
* 2435	P	(2, −5 ; 25)	GR	(1, −6 ; 26)	GR	E	56.030 52	0.4	2617
* 2436	R	(0, 7 ; 13)	GR	(0, 6 ; 12)	GR	A	56.113 55	−0.4	5692
* 2437	R	(0, 2 ; 36)	GR	(0, 2 ; 35)	GR	E	56.233 67	−0.3	4373
* 2438	R	(0, 5 ; 18)	GR	(0, 4 ; 17)	GR	E	56.281 41	−0.6	9523
* 2439	R	(0, 6 ; 11)	GR	(0, 5 ; 10)	GR	A	56.310 11	−0.6	4634
* 2440	R	(0, −8 ; 36)	GR	(0, −8 ; 35)	GR	E	56.311 87	−0.8	1569
* 2441	R	(0, 7 ; 36)	GR	(0, 7 ; 35)	GR	A	56.337 57	0.4	6044
* 2442	R	(0, 6 ; 36)	GR	(0, 6 ; 35)	GR	A	56.337 57	−0.7	6044
* 2443	R	(0, 5 ; 36)	GR	(0, 5 ; 35)	GR	E	56.346 26	−2.1	3401
* 2444	R	(0, 2 $^+$; 23)	GR	(0, 1 $^+$; 22)	GR	A	56.360 65	0.1	8108
* 2445	R	(0, −6 ; 7)	GR	(0, −5 ; 6)	GR	E	56.363 02	−1.8	6424
* 2446	R	(0, 6 ; 36)	GR	(0, 6 ; 35)	GR	E	56.374 54	0.8	3242
* 2447	R	(0, 2 $^-$; 29)	GR	(0, 1 $^-$; 28)	GR	A	56.383 90	−0.3	7161
* 2448	R	(0, −6 ; 36)	GR	(0, −6 ; 35)	GR	E	56.396 00	0.2	3237
* 2449	R	(0, 4 ; 36)	GR	(0, 4 ; 35)	GR	E	56.401 85	3.1	5939
* 2450	R	(0, −5 ; 36)	GR	(0, −5 ; 35)	GR	E	56.428 81	0.2	3651
* 2451	P	(1, −1 ; 13)	GR	(1, 0 ; 14)	GR	E	56.449 39	−0.4	6959
* 2452	R	(0, −3 ; 20)	GR	(0, −2 ; 19)	GR	E	56.494 64	−1.0	9137
* 2453	P	(2, −2 ; 13)	GR	(2, −1 ; 14)	GR	E	56.529 41	−1.6	2779
* 2454	P	(1, 2 ; 11)	GR	(1, 1 ; 12)	GR	E	56.556 15	−0.4	6824
* 2455	R	(1, 4 ; 36)	GR	(1, 4 ; 35)	GR	A	56.585 02	0.0	3527
* 2456	R	(0, −1 ; 38)	GR	(0, 0 ; 37)	GR	E	56.613 24	2.3	6366
* 2457	R	(0, 3 ; 36)	GR	(0, 3 ; 35)	GR	E	56.613 24	0.7	6366
* 2458	R	(0, 6 ; 17)	GR	(0, 5 ; 16)	GR	E	56.625 14	−0.3	9579
* 2459	P	(1, 10 ; 17)	GR	(1, 9 ; 18)	GR	A	56.683 63	−0.2	2713
* 2460	R	(1, 6 ; 15)	GR	(1, 5 ; 14)	GR	A	56.697 11	0.0	9676
* 2461	R	(0, −5 ; 20)	GR	(0, −4 ; 19)	GR	E	56.720 12	−0.4	9368
* 2462	R	(1, −7 ; 23)	GR	(1, −6 ; 22)	GR	E	56.767 13	−0.2	5558
* 2463	R	(0, −2 ; 25)	GR	(0, −1 ; 24)	GR	E	56.777 08	−0.7	4136
* 2464	P	(1, 3 ; 6)	GR	(1, 2 ; 7)	GR	A	56.794 68	−0.7	6864
* 2465	Q	(0, −9 ; 23)	GR	(0, −8 ; 23)	GR	E	56.817 22	0.0	9261
* 2466	Q	(0, −9 ; 24)	GR	(0, −8 ; 24)	GR	E	56.817 22	−1.1	9261
* 2467	Q	(0, −9 ; 22)	GR	(0, −8 ; 22)	GR	E	56.817 22	−2.1	9261
* 2468	Q	(0, −9 ; 25)	GR	(0, −8 ; 25)	GR	E	56.818 40	−0.1	9316
* 2469	Q	(0, −9 ; 21)	GR	(0, −8 ; 21)	GR	E	56.818 40	−2.9	9316
* 2470	Q	(0, −9 ; 20)	GR	(0, −8 ; 20)	GR	E	56.820 55	−0.1	9188
* 2471	Q	(0, −9 ; 26)	GR	(0, −8 ; 26)	GR	E	56.820 55	−0.3	9188
* 2472	Q	(0, −9 ; 19)	GR	(0, −8 ; 19)	GR	E	56.822 91	0.3	8084
* 2473	R	(0, −4 ; 25)	GR	(0, −3 ; 24)	GR	E	56.822 79	−1.7	0
2474	Q	(0, −9 ; 27)	GR	(0, −8 ; 27)	GR	E	56.822 83	−8.3	0
* 2475	Q	(0, −9 ; 18)	GR	(0, −8 ; 18)	GR	E	56.825 84	2.6	9873
* 2476	Q	(0, −9 ; 17)	GR	(0, −8 ; 17)	GR	E	56.828 41	0.3	9122
* 2477	Q	(0, −9 ; 28)	GR	(0, −8 ; 28)	GR	E	56.828 41	0.2	9122
* 2478	Q	(0, −9 ; 16)	GR	(0, −8 ; 16)	GR	E	56.831 80	−1.2	8915
* 2479	Q	(0, −9 ; 29)	GR	(0, −8 ; 29)	GR	E	56.833 97	−0.4	2599
* 2480	Q	(0, −9 ; 15)	GR	(0, −8 ; 15)	GR	E	56.835 61	2.2	7526
* 2481	R	(1, 5 ; 7)	GR	(1, 4 ; 6)	GR	E	56.835 61	−0.2	7526
* 2482	Q	(0, −9 ; 14)	GR	(0, −8 ; 14)	GR	E	56.838 90	−0.6	8847
* 2483	Q	(0, −9 ; 30)	GR	(0, −8 ; 30)	GR	E1	56.841 04	−1.3	5069
* 2484	Q	(0, −9 ; 13)	GR	(0, −8 ; 13)	GR	E	56.842 49	0.2	8779
* 2485	Q	(0, −9 ; 12)	GR	(0, −8 ; 12)	GR	E	56.846 02	−1.4	9077
* 2486	Q	(0, −9 ; 11)	GR	(0, −8 ; 11)	GR	E	56.849 65	−0.6	8268
* 2487	Q	(0, −9 ; 31)	GR	(0, −8 ; 31)	GR	E	56.849 65	−2.2	8268
* 2488	Q	(0, −9 ; 10)	GR	(0, −8 ; 10)	GR	E	56.853 05	−0.9	6953
* 2489	Q	(0, −9 ; 9)	GR	(0, −8 ; 9)	GR	E	56.856 37	−0.5	5994
* 2490	Q	(0, −9 ; 32)	GR	(0, −8 ; 32)	GR	E	56.860 36	−0.9	3635
* 2491	Q	(0, −9 ; 33)	GR	(0, −8 ; 33)	GR	E	56.872 88	0.7	3312
* 2492	Q	(0, −9 ; 34)	GR	(0, −8 ; 34)	GR	E	56.887 30	−0.3	3228
* 2493	Q	(0, −9 ; 35)	GR	(0, −8 ; 35)	GR	E	56.903 76	−1.5	2509
* 2494	Q	(0, −9 ; 36)	GR	(0, −8 ; 36)	GR	E	56.922 49	0.5	2649
* 2495	R	(0, −8 ; 9)	GR	(0, −7 ; 8)	GR	E	57.030 53	−0.2	9689
* 2496	R	(0, 4 ; 15)	GR	(0, 3 ; 14)	GR	E	57.225 81	0.2	9572
* 2497	R	(0, 0 ; 37)	GR	(0, 0 ; 36)	GR	E	57.277 98	1.2	4535
* 2498	R	(0, 3 ; 25)	GR	(0, 2 ; 24)	GR	E	57.280 45	−1.0	6997
* 2499	R	(1, 8 ; 13)	GR	(1, 7 ; 12)	GR	A	57.299 33	−0.5	4528
* 2500	P	(1, −5 ; 25)	GR	(1, −4 ; 26)	GR	E	57.318 16	−1.9	2450
* 2501	R	(0, −1 ; 37)	GR	(0, −1 ; 36)	GR	E	57.392 16	−0.6	3455
* 2502	R	(0, 5 ; 11)	GR	(0, 4 ; 10)	GR	A	57.469 68	−0.3	4953
2503	P	(0, −10 ; 10)	GR	(0, −9 ; 11)	GR	E	57.472 43	5.7	3226
* 2504	R	(0, 4 $^-$; 23)	GR	(0, 3 $^-$; 22)	GR	A	57.517 92	−0.9	8438
2505	P	(2, −5 ; 24)	GR	(1, −6 ; 25)	GR	E	57.593 15	4.9	3156
* 2506	R	(0, 2 $^-$; 30)	GR	(0, 1 $^-$; 29)	GR	A	57.595 72	−0.6	6487
* 2507	R	(0, 4 $^+$; 23)	GR	(0, 3 $^+$; 22)	GR	A	57.615 28	0.0	8792
* 2508	Q	(1, −4 ; 4)	GR	(1, −3 ; 4)	GR	E	57.633 79	1.5	9787
* 2509	Q	(1, −4 ; 5)	GR	(1, −3 ; 5)	GR	E	57.633 79	0.7	9787
* 2510	Q	(1, −4 ; 6)	GR	(1, −3 ; 6)	GR	E	57.633 79	−3.4	9787
* 2511	Q	(1, −4 ; 7)	GR	(1, −3 ; 7)	GR	E	57.635 09	−1.4	9193
* 2512	Q	(1, −4 ; 8)	GR	(1, −3 ; 8)	GR	E	57.637 22	0.2	9050
* 2513	Q	(1, −4 ; 9)	GR	(1, −3 ; 9)	GR	E	57.640 07	0.3	8983
* 2514	Q	(1, −4 ; 10)	GR	(1, −3 ; 10)	GR	E	57.644 19	−0.3	9393
* 2515	Q	(1, −4 ; 11)	GR	(1, −3 ; 11)	GR	E	57.650 10	0.3	9357
* 2516	R	(0, 1 ; 30)	GR	(0, 0 ; 29)	GR	E	57.652 25	−0.6	4913
* 2517	Q	(1, −4 ; 12)	GR	(1, −3 ; 12)	GR	E	57.657 83	−0.2	9085
* 2518	Q	(1, −4 ; 13)	GR	(1, −3 ; 13)	GR	E	57.668 09	0.1	8961
* 2519	R	(0, 7 ; 14)	GR	(0, 6 ; 13)	GR	A	57.678 87	0.9	5123
* 2520	Q	(1, −4 ; 14)	GR	(1, −3 ; 14)	GR	E	57.680 86	−1.1	6081
* 2521	Q	(1, −4 ; 15)	GR	(1, −3 ; 15)	GR	E	57.697 04	−0.3	8815
* 2522	Q	(1, −4 ; 16)	GR	(1, −3 ; 16)	GR	E	57.716 97	2.4	9359
* 2523	Q	(1, −4 ; 17)	GR	(1, −3 ; 17)	GR	E	57.740 52	−0.9	8658
* 2524	Q	(1, −4 ; 18)	GR	(1, −3 ; 18)	GR	E	57.768 95	−0.4	8679
* 2525	Q	(1, −4 ; 19)	GR	(1, −3 ; 19)	GR	E	57.802 54	−0.6	8255
* 2526	R	(0, 5 ; 19)	GR	(0, 4 ; 18)	GR	E	57.838 63	−1.1	9487
* 2527	Q	(1, −4 ; 20)	GR	(1, −3 ; 20)	GR	E	57.841 87	−0.5	8420
* 2528	R	(0, −8 ; 37)	GR	(0, −8 ; 36)	GR	E	57.856 68	0.3	2616
* 2529	R	(0, 6 ; 12)	GR	(0, 5 ; 11)	GR	A	57.878 20	−1.0	5055
* 2530	R	(0, 6 ; 37)	GR	(0, 6 ; 36)	GR	A	57.883 59	0.3	5204
* 2531	R	(0, 7 ; 37)	GR	(0, 7 ; 36)	GR	A	57.883 59	−1.3	5204
* 2532	Q	(1, −4 ; 21)	GR	(1, −3 ; 21)	GR	E	57.887 40	−0.2	8572
* 2533	R	(0, 5 ; 37)	GR	(0, 5 ; 36)	GR	E	57.892 51	−1.0	3497
* 2534	R	(0, −3 ; 21)	GR	(0, −2 ; 20)	GR	E	57.914 25	0.0	8727
* 2535	R	(0, 6 ; 37)	GR	(0, 6 ; 36)	GR	E	57.925 03	0.6	3140
* 2536	R	(0, −6 ; 8)	GR	(0, −5 ; 7)	GR	E	57.935 37	−1.2	6004
* 2537	Q	(1, −4 ; 22)	GR	(1, −3 ; 22)	GR	E	57.939 84	0.0	8138
* 2538	R	(0, −6 ; 37)	GR	(0, −6 ; 36)	GR	E	57.946 85	0.7	3276
* 2539	R	(0, 4 ; 37)	GR	(0, 4 ; 36)	GR	E	57.951 93	0.0	3800
* 2540	R	(0, −5 ; 37)	GR	(0, −5 ; 36)	GR	E	57.982 25	0.7	2942
* 2541	Q	(1, −4 ; 23)	GR	(1, −3 ; 23)	GR	E	57.999 74	−0.3	7505
* 2542	P	(1, −1 ; 12)	GR	(1, 0 ; 13)	GR	E	58.006 19	−0.1	7314
* 2543	Q	(1, −4 ; 24)	GR	(1, −3 ; 24)	GR	E	58.067 75	−0.1	7204
* 2544	P	(2, −2 ; 12)	GR	(2, −1 ; 13)	GR	E	58.097 53	−2.3	3024
* 2545	P	(1, 2 ; 10)	GR	(1, 1 ; 11)	GR	E	58.119 32	−0.3	7515
* 2546	Q	(1, −4 ; 25)	GR	(1, −3 ; 25)	GR	E	58.144 46	0.3	6891
* 2547	R	(0, 3 ; 37)	GR	(0, 3 ; 36)	GR	E	58.171 87	2.1	3291
* 2548	R	(0, 6 ; 18)	GR	(0, 5 ; 17)	GR	E	58.191 50	0.2	9712
* 2549	R	(1, 6 ; 16)	GR	(1, 5 ; 15)	GR	A	58.216 74	−0.5	9540
* 2550	Q	(1, −4 ; 26)	GR	(1, −3 ; 26)	GR	E	58.230 49	−1.1	6595



Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 2551	R (0, −1 ; 39)	GR ←	(0, 0 ; 38)	GR	E	58.242 08	−0.3	4425
* 2552	P (1, 10 ; 16)	GR ←	(1, 9 ; 17)	GR	A	58.255 99	−0.1	2520
* 2553	R (1, −7 ; 24)	GR ←	(1, −6 ; 23)	GR	E	58.266 85	0.3	5426
* 2554	R (0, −5 ; 21)	GR ←	(0, −4 ; 20)	GR	E	58.293 57	0.7	9144
* 2555	Q (1, −4 ; 27)	GR ←	(1, −3 ; 27)	GR	E	58.326 58	−0.5	6108
* 2556	R (0, 2 $^{+}$; 24)	GR ←	(0, 1 $^{+}$; 23)	GR	A	58.349 84	−0.7	7646
* 2557	P (1, 3 ; 5)	GR ←	(1, 2 ; 6)	GR	A	58.363 76	−0.5	6191
* 2558	R (0, −4 ; 26)	GR ←	(0, −3 ; 25)	GR	E	58.374 34	0.0	7743
* 2559	R (1, 5 ; 8)	GR ←	(1, 4 ; 7)	GR	E	58.409 84	0.3	9044
* 2560	Q (1, −4 ; 28)	GR ←	(1, −3 ; 28)	GR	E	58.433 30	−0.6	5725
* 2561	Q (1, −4 ; 29)	GR ←	(1, −3 ; 29)	GR	E	58.551 35	0.7	5041
* 2562	R (0, −8 ; 10)	GR ←	(0, −7 ; 9)	GR	E	58.597 94	0.5	6596
* 2563	Q (1, −4 ; 30)	GR ←	(1, −3 ; 30)	GR	E	58.681 20	−0.5	4679
* 2564	R (0, 4 ; 16)	GR ←	(0, 3 ; 15)	GR	E	58.777 00	−0.3	9900
* 2565	R (0, 0 ; 38)	GR ←	(0, 0 ; 37)	GR	E	58.801 94	−1.4	6795
* 2566	Q (1, −4 ; 31)	GR ←	(1, −3 ; 31)	GR	E	58.823 76	0.2	4992
* 2567	R (1, 8 ; 14)	GR ←	(1, 7 ; 13)	GR	A	58.841 03	0.1	4687
* 2568	R (0, −2 ; 26)	GR ←	(0, −1 ; 25)	GR	E	58.861 80	0.0	3741
* 2569	P (1, −5 ; 24)	GR ←	(1, −4 ; 25)	GR	E	58.865 63	0.6	2769
* 2570	R (0, −1 ; 38)	GR ←	(0, −1 ; 37)	GR	E	58.912 19	−2.1	3458
* 2571	R (0, 3 ; 26)	GR ←	(0, 2 ; 25)	GR	E	58.964 04	−0.8	6609
* 2572	Q (1, −4 ; 32)	GR ←	(1, −3 ; 32)	GR	E	58.979 20	−1.0	3968
2573	R (0, 5 ; 12)	GR ←	(0, 4 ; 11)	GR	A	59.038 13	−5.9	4855
* 2574	R (0, 4 $^{-}$; 24)	GR ←	(0, 3 $^{-}$; 23)	GR	A	59.081 98	−0.3	8301
2575	Q (1, −4 ; 33)	GR ←	(1, −3 ; 33)	GR	E	59.148 77	3.1	4183
* 2576	P (2, −5 ; 23)	GR ←	(1, −6 ; 24)	GR	E	59.157 73	0.9	3183
* 2577	Q (1, 4 ; 5)	GR ←	(1, 3 ; 5)	GR	A	59.194 29	2.6	8000
* 2578	Q (1, 4 ; 6)	GR ←	(1, 3 ; 6)	GR	A	59.194 29	2.6	8000
* 2579	Q (1, 4 ; 4)	GR ←	(1, 3 ; 4)	GR	A	59.194 29	−2.9	8000
2580	Q (1, 4 ; 7)	GR ←	(1, 3 ; 7)	GR	A	59.194 29	−7.8	8000
* 2581	Q (1, 4 ; 8)	GR ←	(1, 3 ; 8)	GR	A	59.197 47	−1.3	6663
* 2582	Q (1, 4 ; 9)	GR ←	(1, 3 ; 9)	GR	A	59.202 15	0.2	6663
* 2583	R (0, 4 $^{+}$; 24)	GR ←	(0, 3 $^{+}$; 23)	GR	A	59.208 87	−1.1	9272
* 2584	Q (1, 4 ; 10)	GR ←	(1, 3 ; 10)	GR	A	59.208 87	−2.5	9272
* 2585	Q (1, 4 ; 11)	GR ←	(1, 3 ; 11)	GR	A	59.219 35	−0.4	6588
* 2586	Q (1, 4 ; 12)	GR ←	(1, 3 ; 12)	GR	A	59.233 46	−0.5	6427
* 2587	Q (0, 8 ; 33)	GR ←	(0, 7 ; 33)	GR	E	59.242 14	−0.3	3678
* 2588	R (0, 7 ; 15)	GR ←	(0, 6 ; 14)	GR	A	59.243 35	2.6	4177
* 2589	Q (1, 4 ; 13)	GR ←	(1, 3 ; 13)	GR	A	59.252 10	−1.0	6519
* 2590	Q (1, 4 ; 14)	GR ←	(1, 3 ; 14)	GR	A	59.276 12	−0.2	6137
* 2591	Q (0, 8 ; 32)	GR ←	(0, 7 ; 32)	GR	E	59.277 45	−0.9	1602
* 2592	Q (1, 4 ; 15)	GR ←	(1, 3 ; 15)	GR	A	59. 06 08	0.3	7006
* 2593	R (0, −3 ; 22)	GR ←	(0, −2 ; 21)	GR	E	59.309 89	−0.7	8869
* 2594	Q (0, 8 ; 31)	GR ←	(0, 7 ; 31)	GR	E	59.309 89	−1.0	8869
* 2595	Q (1, −4 ; 34)	GR ←	(1, −3 ; 34)	GR	E	59.332 13	−2.0	5420
* 2596	Q (0, 8 ; 30)	GR ←	(0, 7 ; 30)	GR	E	59.339 97	0.3	6205
* 2597	Q (1, 4 ; 16)	GR ←	(1, 3 ; 16)	GR	A	59.342 73	0.0	5834
* 2598	Q (0, 8 ; 29)	GR ←	(0, 7 ; 29)	GR	E	59.366 94	−1.1	5485
* 2599	Q (1, 4 ; 17)	GR ←	(1, 3 ; 17)	GR	A	59.386 75	−0.8	5907
* 2600	Q (0, 8 ; 28)	GR ←	(0, 7 ; 28)	GR	E	59.391 64	0.2	6207
* 2601	R (0, 5 ; 20)	GR ←	(0, 4 ; 19)	GR	E	59.393 76	−0.9	9460
2602	R (0, −8 ; 38)	GR ←	(0, −8 ; 37)	GR	E	59.400 26	1.7	2682
* 2603	Q (0, 8 ; 27)	GR ←	(0, 7 ; 27)	GR	E	59.413 73	−1.9	6081
* 2604	R (0, 6 ; 38)	GR ←	(0, 6 ; 37)	GR	A	59.427 38	0.4	3695
* 2605	R (0, 7 ; 38)	GR ←	(0, 7 ; 37)	GR	A	59.428 84	−1.1	3379
* 2606	Q (0, 8 ; 26)	GR ←	(0, 7 ; 26)	GR	E	59.433 76	−0.2	6672
* 2607	R (0, 5 ; 38)	GR ←	(0, 5 ; 37)	GR	E	59.437 33	−1.1	3604
* 2608	Q (1, 4 ; 18)	GR ←	(1, 3 ; 18)	GR	A	59.439 00	0.4	5928
* 2609	R (0, 6 ; 13)	GR ←	(0, 5 ; 12)	GR	A	59.445 12	−0.1	9815
* 2610	Q (0, 8 ; 25)	GR ←	(0, 7 ; 25)	GR	E	59.451 67	−0.5	7287
* 2611	Q (0, 8 ; 24)	GR ←	(0, 7 ; 24)	GR	E	59.467 82	−0.1	7251
* 2612	Q (0, 8 ; 23)	GR ←	(0, 7 ; 23)	GR	E	59.482 17	−0.6	7838
* 2613	Q (0, 8 ; 22)	GR ←	(0, 7 ; 22)	GR	E	59.494 87	−1.0	7797
* 2614	Q (1, 4 ; 19)	GR ←	(1, 3 ; 19)	GR	A	59.499 82	1.8	5604
* 2615	R (0, 4 ; 38)	GR ←	(0, 4 ; 37)	GR	E	59.499 82	−2.3	5604
* 2616	Q (0, 8 ; 21)	GR ←	(0, 7 ; 21)	GR	E	59.506 17	−1.6	5422
* 2617	R (0, −6 ; 9)	GR ←	(0, −5 ; 8)	GR	E	59.507 48	2.0	5725
* 2618	Q (0, 8 ; 20)	GR ←	(0, 7 ; 20)	GR	E	59.516 04	−0.2	8490
* 2619	Q (0, 8 ; 19)	GR ←	(0, 7 ; 19)	GR	E	59.524 72	−0.5	8717
2620	Q (1, −4 ; 35)	GR ←	(1, −3 ; 35)	GR	E	59.532 18	10.2	8527
* 2621	Q (0, 8 ; 18)	GR ←	(0, 7 ; 18)	GR	E	59.532 18	−1.5	8527
* 2622	R (0, −5 ; 38)	GR ←	(0, −5 ; 37)	GR	E	59.534 02	0.9	5050
* 2623	Q (0, 8 ; 17)	GR ←	(0, 7 ; 17)	GR	E	59.538 75	−0.3	8730
* 2624	Q (0, 8 ; 16)	GR ←	(0, 7 ; 16)	GR	E	59.544 36	−0.3	8990
* 2625	Q (0, 8 ; 15)	GR ←	(0, 7 ; 15)	GR	E	59.549 24	0.6	9118

Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 2626	Q (0, 8 ; 14)	GR ←	(0, 7 ; 14)	GR	E	59.553 18	0.2	9173
* 2627	Q (0, 8 ; 13)	GR ←	(0, 7 ; 13)	GR	E	59.556 60	−0.8	8990
* 2628	Q (0, 8 ; 12)	GR ←	(0, 7 ; 12)	GR	E	59.559 58	0.0	9719
* 2629	Q (0, 8 ; 11)	GR ←	(0, 7 ; 11)	GR	E	59.561 77	−0.5	9337
* 2630	Q (0, 8 ; 10)	GR ←	(0, 7 ; 10)	GR	E	59.563 74	1.4	8461
* 2631	Q (0, 8 ; 9)	GR ←	(0, 7 ; 9)	GR	E	59.565 49	1.4	8937
* 2632	P (1, −1 ; 11)	GR ←	(1, 0 ; 12)	GR	E	59.565 49	0.8	8937
2633	Q (0, 8 ; 8)	GR ←	(0, 7 ; 8)	GR	E	59.565 49	−10.6	8937
* 2634	Q (1, 4 ; 20)	GR ←	(1, 3 ; 20)	GR	A	59.569 42	−1.4	4760
* 2635	Q (1, 4 ; 21)	GR ←	(1, 3 ; 21)	GR	A	59.649 08	−1.6	4007
* 2636	P (2, −2 ; 11)	GR ←	(2, −1 ; 12)	GR	E	59.665 84	−0.7	3068
* 2637	P (1, 2 ; 9)	GR ←	(1, 1 ; 10)	GR	E	59.684 06	−0.1	7111
* 2638	R (0, 1 ; 31)	GR ←	(0, 0 ; 30)	GR	E	59.689 23	0.7	3671
* 2639	R (1, 6 ; 17)	GR ←	(1, 5 ; 16)	GR	A	59.726 69	−0.3	9535
* 2640	R (0, 3 ; 38)	GR ←	(0, 3 ; 37)	GR	E	59.730 33	0.0	3984
2641	Q (1, 4 ; 22)	GR ←	(1, 3 $^{-}$; 22)	GR	A	59.737 14	−8.4	5171
* 2642	Q (1, 4 ; 22)	GR ←	(1, 3 $^{+}$; 22)	GR	A	59.739 13	−2.9	3328
* 2643	Q (1, −4 ; 36)	GR ←	(1, −3 ; 36)	GR	E	59.745 20	0.0	2715
* 2644	R (0, 6 ; 19)	GR ←	(0, 5 ; 18)	GR	E	59.757 78	0.0	9555
2645	R (1, −7 ; 25)	GR ←	(1, −6 ; 24)	GR	E	59.757 78	−8.3	9555
* 2646	P (1, 10 ; 15)	GR ←	(1, 9 ; 16)	GR	A	59.830 69	−0.4	2727
* 2647	Q (1, 4 ; 23)	GR ←	(1, 3 $^{-}$; 23)	GR	A	59.837 38	−0.4	3180
* 2648	Q (1, 4 ; 23)	GR ←	(1, 3 $^{+}$; 23)	GR	A	59.839 21	−0.7	3715
* 2649	R (0, −1 ; 40)	GR ←	(0, 0 ; 39)	GR	E	59.865 06	0.0	6473
* 2650	R (0, −5 ; 22)	GR ←	(0, −4 ; 21)	GR	E	59.867 93	0.8	9659
* 2651	R (0, −4 ; 27)	GR ←	(0, −3 ; 26)	GR	E	59.923 92	0.0	7082
* 2652	P (1, 3 ; 4)	GR ←	(1, 2 ; 5)	GR	A	59.933 22	−0.8	5621
* 2653	R (1, 5 ; 9)	GR ←	(1, 4 ; 8)	GR	E	59.986 49	0.2	9162
* 2654	Q (1, 4 ; 25)	GR ←	(1, 3 $^{-}$; 25)	GR	A	60.066 81	−2.2	2870
* 2655	Q (1, 4 ; 25)	GR ←	(1, 3 $^{+}$; 25)	GR	A	60.069 94	0.1	2774
* 2656	R (0, −8 ; 11)	GR ←	(0, −7 ; 10)	GR	E	60.164 38	0.1	9702
* 2657	Q (1, 4 ; 26)	GR ←	(1, 3 $^{-}$; 26)	GR	A	60.196 91	−0.1	2528
* 2658	Q (1, 4 ; 26)	GR ←	(1, 3 $^{+}$; 26)	GR	A	60.200 69	0.2	2692
* 2659	R (0, 4 ; 17)	GR ←	(0, 3 ; 16)	GR	E	60.323 63	0.0	9540
* 2660	Q (1, 4 ; 27)	GR ←	(1, 3 $^{-}$; 27)	GR	A	60.336 88	−2.0	3754
* 2661	Q (1, 4 ; 27)	GR ←	(1, 3 $^{+}$; 27)	GR	A	60.341 38	−2.0	2407
* 2662	R (0, 2 $^{+}$; 25)	GR ←	(0, 1 $^{+}$; 24)	GR	A	60.364 43	−1.0	7171
* 2663	R (1, 8 ; 15)	GR ←	(1, 7 ; 14)	GR	A	60.380 34	−0.9	4610
* 2664	P (1, −5 ; 23)	GR ←	(1, −4 ; 24)	GR	E	60.414 65	−1.8	2672
* 2665	R (0, −1 ; 39)	GR ←	(0, −1 ; 38)	GR	E	60.431 22	0.4	2644
* 2666	Q (0, 10 ; 32)	GR ←	(0, 9 ; 32)	GR	E	60.546 14	1.5	5395
* 2667	Q (0, 10 ; 31)	GR ←	(0, 9 ; 31)	GR	E	60.546 14	−1.4	5395
* 2668	Q (0, 10 ; 30)	GR ←	(0, 9 ; 30)	GR	E	60.548 25	−1.4	4183
* 2669	Q (0, 10 ; 29)	GR ←	(0, 9 ; 29)	GR	E	60.551 43	−0.7	4224
* 2670	Q (0, 10 ; 33)	GR ←	(0, 9 ; 33)	GR	E	60.553 87	−0.5	1433
* 2671	Q (0, 10 ; 28)	GR ←	(0, 9 ; 28)	GR	E	60.555 15	−0.5	4499
* 2672	Q (0, 10 ; 27)	GR ←	(0, 9 ; 27)	GR	E	60.559 35	−0.4	4884
* 2673	Q (0, 10 ; 26)	GR ←	(0, 9 ; 26)	GR	E	60.564 23	0.3	5286
* 2674	Q (0, 10 ; 34)	GR ←	(0, 9 ; 34)	GR	E	60.566 61	0.0	2469
* 2675	Q (0, 10 ; 25)	GR ←	(0, 9 ; 25)	GR	E	60.569 58	−0.7	6312
* 2676	Q (0, 10 ; 24)	GR ←	(0, 9 ; 24)	GR	E	60.574 93	0.1	6028
* 2677	Q (0, 10 ; 23)	GR ←	(0, 9 ; 23)	GR	E	60.580 52	−1.9	8589
* 2678	Q (0, 10 ; 22)	GR ←	(0, 9 ; 22)	GR	E	60.586 84	−0.4	6577
* 2679	Q (0, 10 ; 21)	GR ←	(0, 9 ; 21)	GR	E	60.593 02	−0.6	6923
* 2680	Q (0, 10 ; 20)	GR ←	(0, 9 ; 20)	GR	E	60.599 34	−0.2	7227
2681	Q (0, 10 ; 19)	GR ←	(0, 9 ; 19)	GR	E	60.605 17	−2.4	5597
* 2682	R (0, 5 ; 13)	GR ←	(0, 4 ; 12)	GR	A	60.606 28	0.8	4515
* 2683	R (0, 7 ; 7)	GR ←	(0, 6 ; 6)	GR	E	60.606 48	1.1	6393
* 2684	Q (0, 10 ; 18)	GR ←	(0, 9 ; 18)	GR	E	60.611 92	0.1	7722
* 2685	Q (0, 10 ; 17)	GR ←	(0, 9 ; 17)	GR	E	60.618 23	0.4	7551
* 2686	Q (0, 10 ; 16)	GR ←	(0, 9 ; 16)	GR	E	60.624 36	−0.4	7575
* 2687	Q (0, 10 ; 15)	GR ←	(0, 9 ; 15)	GR	E	60.630 43	−0.9	7793
* 2688	Q (0, 10 ; 14)	GR ←	(0, 9 ; 14)	GR	E	60.636 26	−0.3	7612
* 2689	Q (0, 10 ; 13)	GR ←	(0, 9 ; 13)	GR	E	60.641 80	−0.6	7785
* 2690	R (0, 4 $^{-}$; 25)	GR ←	(0, 3 $^{-}$; 24)	GR	A	60.643 60	0.2	8486
* 2691	Q (0, 10 ; 12)	GR ←	(0, 9 ; 12)	GR	E	60.647 19	−0.1	7275
* 2692	Q (0, 10 ; 11)	GR ←	(0, 9 ; 11)	GR	E	60.652 34	−0.1	6441
* 2693	Q (0, 10 ; 10)	GR ←	(0, 9 ; 10)	GR	E	60.657 20	1.0	5475
* 2694	R (0, 3 ; 27)	GR ←	(0, 2 ; 26)	GR	E	60.669 93	−1.2	6118
* 2695	R (0, −3 ; 23)	GR ←	(0, −2 ; 22)	GR	E	60.680 85	0.0	8496
* 2696	P (2, −5 ; 22)	GR ←	(1, −6 ; 23)	GR	E	60.725 62	0.4	3456
* 2697	R (0, −7 ; 7)	GR ←	(0, −6 ; 6)	GR	E	60.785 77	−1.2	9068
2698	R (0, 7 ; 16)	GR ←	(0, 6 ; 15)	GR	A	60.806 97	5.1	4394
* 2699	R (0, 4 $^{+}$; 25)	GR ←	(0, 3 $^{+}$; 24)	GR	A	60.806 97	0.8	4527
* 2700	R (0, −8 ; 39)	GR ←	(0, −8 ; 38)	GR	E	60.941 54	0.0	3189



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 2701	R (0, 5 ; 21) GR	←	(0, 4 ; 20) GR	E	60.946 57	−0.6	9273
* 2702	R (0, 6 ; 39) GR	←	(0, 6 ; 38) GR	A	60.970 19	−1.1	4331
* 2703	R (0, 7 ; 39) GR	←	(0, 7 ; 38) GR	A	60.972 41	−1.1	3169
* 2704	R (0, 5 ; 39) GR	←	(0, 5 ; 38) GR	E	60.980 11	0.4	2956
* 2705	R (0, −2 ; 27) GR	←	(0, −1 ; 26) GR	E	60.990 45	0.1	5478
* 2706	Q (0, 10 ; 36) GR	←	(0, 9 ; 36) GR	A	60.999 54	−0.9	2928
* 2707	R (0, 6 ; 14) GR	←	(0, 5 ; 13) GR	A	61.010 79	0.1	5037
* 2708	Q (0, 10 ; 35) GR	←	(0, 9 ; 35) GR	A	61.053 51	−0.3	3209
* 2709	R (0, −6 ; 10) GR	←	(0, −5 ; 9) GR	E	61.078 48	−0.8	9903
2710	R (0, −5 ; 39) GR	←	(0, −5 ; 38) GR	E	61.085 63	0.0	2916
* 2711	Q (0, 10 ; 34) GR	←	(0, 9 ; 34) GR	A	61.103 43	0.0	3001
* 2712	P (1, −1 ; 10) GR	←	(1, 0 ; 11) GR	E	61.126 66	0.2	7549
* 2713	Q (0, 10 ; 33) GR	←	(0, 9 ; 33) GR	A	61.149 77	−1.6	3509
* 2714	Q (0, 10 ; 32) GR	←	(0, 9 ; 32) GR	A	61.192 75	−0.6	4174
* 2715	R (1, 6 ; 18) GR	←	(1, 5 ; 17) GR	A	61.225 31	0.0	9623
* 2716	Q (0, 10 ; 31) GR	←	(0, 9 ; 31) GR	A	61.232 48	−2.6	4344
* 2717	P (2, −2 ; 10) GR	←	(2, −1 ; 11) GR	E	61.234 36	−0.3	3097
* 2718	R (1, −7 ; 26) GR	←	(1, −6 ; 25) GR	E	61.242 08	0.0	4875
* 2719	P (1, 2 ; 8) GR	←	(1, 1 ; 9) GR	E	61.250 22	−0.1	7312
* 2720	Q (0, 10 ; 30) GR	←	(0, 9 ; 30) GR	A	61.269 26	−0.8	5220
* 2721	Q (0, 10 ; 29) GR	←	(0, 9 ; 29) GR	A	61.303 22	0.4	5485
* 2722	R (0, 6 ; 20) GR	←	(0, 5 ; 19) GR	E	61.323 68	−0.1	9485
* 2723	Q (0, 10 ; 28) GR	←	(0, 9 ; 28) GR	A	61.334 46	0.5	6540
* 2724	Q (0, 10 ; 27) GR	←	(0, 9 ; 27) GR	A	61.362 99	−2.1	6527
* 2725	Q (0, 10 ; 26) GR	←	(0, 9 ; 26) GR	A	61.389 53	−1.1	6454
* 2726	P (1, 10 ; 14) GR	←	(1, 9 ; 15) GR	A	61.407 07	−2.6	2290
* 2727	Q (0, 10 ; 25) GR	←	(0, 9 ; 25) GR	A	61.413 67	−0.6	7025
* 2728	Q (0, 10 ; 24) GR	←	(0, 9 ; 24) GR	A	61.435 78	−0.8	7483
* 2729	R (0, −5 ; 23) GR	←	(0, −4 ; 22) GR	E	61.443 13	−0.2	8787
* 2730	Q (0, 10 ; 23) GR	←	(0, 9 ; 23) GR	A	61.455 92	−1.4	7731
* 2731	R (0, −4 ; 28) GR	←	(0, −3 ; 27) GR	E	61.471 59	−0.7	7196
* 2732	Q (0, 10 ; 22) GR	←	(0, 9 ; 22) GR	A	61.474 19	−1.7	8473
* 2733	P (1, 6 ; 30) GR	←	(1, 5 ; 31) GR	E	61.477 77	2.0	4389
* 2734	R (0, −1 ; 41) GR	←	(0, 0 ; 40) GR	E	61.483 48	−0.6	3420
* 2735	Q (0, 10 ; 21) GR	←	(0, 9 ; 21) GR	A	61.490 95	0.2	8450
* 2736	P (1, 3 ; 3) GR	←	(1, 2 ; 4) GR	A	61.503 45	1.1	4383
* 2737	Q (0, 10 ; 20) GR	←	(0, 9 ; 20) GR	A	61.505 83	−1.0	8648
* 2738	Q (0, 10 ; 19) GR	←	(0, 9 ; 19) GR	A	61.518 44	−3.0	8645
* 2739	Q (0, 10 ; 18) GR	←	(0, 9 ; 18) GR	A	61.525 22	−0.3	7939
* 2740	Q (0, 10 ; 17) GR	←	(0, 9 ; 17) GR	A	61.548 30	−0.5	8785
* 2741	Q (0, 10 ; 16) GR	←	(0, 9 ; 16) GR	A	61.556 60	−1.6	9513
* 2742	Q (0, 10 ; 15) GR	←	(0, 9 ; 15) GR	A	61.565 98	4.7	9420
2743	R (1, 5 ; 10) GR	←	(1, 4 ; 9) GR	E	61.565 98	−4.4	9420
* 2744	Q (0, 10 ; 14) GR	←	(0, 9 ; 14) GR	A	61.573 37	−0.6	8868
* 2745	Q (0, 10 ; 13) GR	←	(0, 9 ; 13) GR	A	61.580 57	−0.1	8643
* 2746	Q (0, 10 ; 12) GR	←	(0, 9 ; 12) GR	A	61.587 08	−0.4	8266
* 2747	Q (0, 10 ; 11) GR	←	(0, 9 ; 11) GR	A	61.592 76	−1.0	7860
* 2748	Q (0, 10 ; 10) GR	←	(0, 9 ; 10) GR	A	61.597 88	−1.3	5995
* 2749	P (0, 13 ; 19) GR	←	(0, 12 ; 20) GR	A	61.659 98	−0.2	2814
* 2750	R (0, −8 ; 12) GR	←	(0, −7 ; 11) GR	E	61.729 88	0.1	9771
* 2751	R (0, 1 ; 32) GR	←	(0, 0 ; 31) GR	E	61.755 34	1.4	4958
* 2752	R (0, 4 ; 18) GR	←	(0, 3 ; 17) GR	E	61.864 80	−0.5	6384
* 2753	R (1, 8 ; 16) GR	←	(1, 7 ; 15) GR	A	61.917 10	0.0	4400
* 2754	R (0, −1 ; 40) GR	←	(0, −1 ; 39) GR	E	61.948 19	0.7	3595
* 2755	P (1, −5 ; 22) GR	←	(1, −4 ; 23) GR	E	61.965 97	−1.3	3119
* 2756	R (0, −3 ; 24) GR	←	(0, −2 ; 23) GR	E	62.026 75	−0.7	8082
* 2757	R (0, 5 ; 14) GR	←	(0, 4 ; 13) GR	A	62.172 02	−0.7	4896
* 2758	R (0, 7 ; 8) GR	←	(0, 6 ; 7) GR	E	62.177 84	−0.8	5931
* 2759	R (0, 4 −; 26) GR	←	(0, 3 −; 25) GR	A	62.202 03	−2.1	7948
* 2760	P (2, −5 ; 21) GR	←	(1, −6 ; 22) GR	E	62.296 06	2.8	5096
* 2761	R (0, −7 ; 8) GR	←	(0, −6 ; 7) GR	E	62.357 86	1.4	6889
* 2762	R (0, 7 ; 17) GR	←	(0, 6 ; 16) GR	A	62.369 12	0.2	4921
* 2763	R (0, 3 ; 28) GR	←	(0, 2 ; 27) GR	E	62.398 95	0.3	7161
* 2764	R (0, 2 +; 26) GR	←	(0, 1 +; 25) GR	A	62.404 73	−0.6	6766
* 2765	R (0, 4 +; 26) GR	←	(0, 3 +; 25) GR	A	62.410 16	−0.3	7940
* 2766	R (0, 5 ; 22) GR	←	(0, 4 ; 21) GR	E	62.497 06	−0.3	9180
* 2767	R (0, 7 ; 40) GR	←	(0, 7 ; 39) GR	A	62.514 25	−2.8	4856
* 2768	R (0, 6 ; 15) GR	←	(0, 5 ; 14) GR	A	62.574 92	−0.9	5042
* 2769	R (0, −5 ; 40) GR	←	(0, −5 ; 39) GR	E	62.635 19	0.0	2150
* 2770	R (0, −6 ; 11) GR	←	(0, −5 ; 10) GR	E	62.649 11	−0.8	6516
* 2771	P (1, −1 ; 9) GR	←	(1, 0 ; 10) GR	E	62.689 62	−0.2	7941
* 2772	R (1, −7 ; 27) GR	←	(1, −6 ; 26) GR	E	62.716 87	0.6	4840
* 2773	R (1, 6 ; 19) GR	←	(1, 5 ; 18) GR	A	62.726 56	0.7	8721
2774	P (2, −2 ; 9) GR	←	(2, −1 ; 10) GR	E	62.803 33	4.5	3543
* 2775	P (1, 2 ; 7) GR	←	(1, 1 ; 8) GR	E	62.817 43	−0.4	6624
* 2776	P (1, −8 ; 27) GR	←	(1, −7 ; 28) GR	E	62.885 26	0.9	2415
* 2777	R (0, 6 ; 21) GR	←	(0, 5 ; 20) GR	E	62.889 63	0.2	9323
* 2778	P (1, 10 ; 13) GR	←	(1, 9 ; 14) GR	A	62.985 44	−0.9	2610
* 2779	R (0, −4 ; 29) GR	←	(0, −3 ; 28) GR	E	63.017 30	1.2	6869
* 2780	R (0, −5 ; 24) GR	←	(0, −4 ; 23) GR	E	63.019 59	0.0	8344
* 2781	P (1, 9 ; 20) GR	←	(1, 8 ; 21) GR	E	63.130 39	−1.1	2647
* 2782	R (1, 5 ; 11) GR	←	(1, 4 ; 10) GR	E	63.150 61	−0.1	8703
* 2783	R (0, −2 ; 28) GR	←	(0, −1 ; 27) GR	E	63.162 34	0.4	3160
2784	P (0, 13 ; 18) GR	←	(0, 12 ; 19) GR	A	63.230 80	−2.8	2318
* 2785	R (0, −8 ; 13) GR	←	(0, −7 ; 12) GR	E	63.294 29	−0.4	9892
* 2786	R (0, −3 ; 25) GR	←	(0, −2 ; 24) GR	E	63.347 93	−0.4	7900
* 2787	R (0, 4 ; 19) GR	←	(0, 3 ; 18) GR	E	63.400 21	−0.3	9868
2788	P (1, 6 ; 29) GR	←	(1, 5 ; 30) GR	E	63.405 77	−4.8	2196
* 2789	R (1, 8 ; 17) GR	←	(1, 7 ; 16) GR	A	63.451 14	−0.7	3790
* 2790	R (0, −1 ; 41) GR	←	(0, −1 ; 40) GR	E	63.464 51	0.6	2603
* 2791	P (1, −5 ; 21) GR	←	(1, −4 ; 22) GR	E	63.519 44	0.7	3306
* 2792	R (0, 5 ; 15) GR	←	(0, 4 ; 14) GR	A	63.736 22	−0.6	4876
* 2793	R , 7 ; 9) GR	←	(0, 6 ; 8) GR	E	63.748 99	−0.4	6697
* 2794	R (0, 4 −; 27) GR	←	(0, 3 −; 26) GR	A	63.756 70	−0.3	7288
* 2795	P (2, −5 ; 20) GR	←	(1, −6 ; 21) GR	E	63.868 13	−0.5	3892
* 2796	R (1, −4 ; 4) GR	←	(1, −3 ; 3) GR	E	63.914 52	−0.1	9036
* 2797	R (0, −7 ; 9) GR	←	(0, −6 ; 8) GR	E	63.928 98	0.6	9900
* 2798	R (0, 7 ; 18) GR	←	(0, 6 ; 17) GR	A	63.930 87	0.2	9795
* 2799	R (0, 4 +; 27) GR	←	(0, 3 +; 26) GR	A	64.019 40	0.6	8351
* 2800	R (0, 5 ; 23) GR	←	(0, 4 ; 22) GR	E	64.044 89	−0.6	8968
* 2801	R (0, 6 ; 16) GR	←	(0, 5 ; 15) GR	A	64.137 51	0.0	5058
* 2802	R (0, 3 ; 29) GR	←	(0, 2 ; 28) GR	E	64.151 57	0.7	5241
* 2803	R (1, −7 ; 28) GR	←	(1, −6 ; 27) GR	E	64.182 53	−1.0	4441
* 2804	R (1, 6 ; 20) GR	←	(1, 5 ; 19) GR	A	64.198 30	−0.4	9241
* 2805	R (0, −6 ; 12) GR	←	(0, −5 ; 11) GR	E	64.219 19	−0.8	9902
* 2806	P (1, −1 ; 8) GR	←	(1, 0 ; 9) GR	E	64.254 17	−0.3	7871
* 2807	P (1, −8 ; 26) GR	←	(1, −7 ; 27) GR	E	64.324 16	−0.6	2230
* 2808	P (2, −2 ; 8) GR	←	(2, −1 ; 9) GR	E	64.371 41	−1.1	2856
* 2809	P (1, 2 ; 6) GR	←	(1, 1 ; 7) GR	E	64.385 61	−0.4	6550
* 2810	R (0, 6 ; 22) GR	←	(0, 5 ; 21) GR	E	64.455 54	−1.2	9016
* 2811	R (0, 2 +; 27) GR	←	(0, 1 +; 26) GR	A	64.471 00	−0.6	6137
* 2812	R (0, −4 ; 30) GR	←	(0, −3 ; 29) GR	E	64.560 37	0.5	6033
* 2813	R (0, −5 ; 25) GR	←	(0, −4 ; 24) GR	E	64.597 37	−0.3	8671
* 2814	R (0, −3 ; 26) GR	←	(0, −2 ; 25) GR	E	64.644 72	−2.4	9545
* 2815	R (1, 5 ; 12) GR	←	(1, 4 ; 11) GR	E	64.739 70	−0.3	9057
* 2816	P (1, 9 ; 19) GR	←	(1, 8 ; 20) GR	E	64.744 19	0.1	5285
* 2817	Q (0, 11 ; 34) GR	←	(0, 10 ; 34) GR	A	64.771 33	2.1	6625
* 2818	Q (0, 11 ; 33) GR	←	(0, 10 ; 33) GR	A	64.792 38	1.8	5696
* 2819	P (0, 13 ; 17) GR	←	(0, 12 ; 18) GR	A	64.802 46	0.8	2151
* 2820	Q (0, 11 ; 32) GR	←	(0, 10 ; 32) GR	A	64.813 33	0.5	3768
* 2821	Q (0, 11 ; 31) GR	←	(0, 10 ; 31) GR	A	64.833 53	0.3	4193
* 2822	Q (0, 11 ; 30) GR	←	(0, 10 ; 30) GR	A	64.852 79	0.5	4835
* 2823	R (0, −8 ; 14) GR	←	(0, −7 ; 13) GR	E	64.857 64	−0.9	9835
* 2824	Q (0, 11 ; 29) GR	←	(0, 10 ; 29) GR	A	64.871 35	0.9	5215
* 2825	Q (0, 11 ; 28) GR	←	(0, 10 ; 28) GR	A	64.889 02	0.2	5359
* 2826	Q (0, 11 ; 27) GR	←	(0, 10 ; 27) GR	A	64.905 98	−2.6	5715
* 2827	Q (0, 11 ; 26) GR	←	(0, 10 ; 26) GR	A	64.922 20	1.8	6420
* 2828	R (0, 4 ; 20) GR	←	(0, 3 ; 19) GR	E	64.928 95	0.1	9546
* 2829	Q (0, 11 ; 25) GR	←	(0, 10 ; 25) GR	A	64.937 70	−3.0	6875
* 2830	Q (0, 11 ; 24) GR	←	(0, 10 ; 24) GR	A	64.952 46	−0.8	6918
* 2831	Q (0, 11 ; 23) GR	←	(0, 10 ; 23) GR	A	64.966 50	−0.4	7283
* 2832	R (0, −1 ; 42) GR	←	(0, −1 ; 41) GR	E	64.979 92	0.0	7724
* 2833	Q (0, 11 ; 22) GR	←	(0, 10 ; 22) GR	A	64.979 92	−0.9	7724
* 2834	R (1, 8 ; 18) GR	←	(1, 7 ; 17) GR	A	64.982 31	−1.8	4245
* 2835	Q (0, 11 ; 21) GR	←	(0, 10 ; 21) GR	A	64.992 63	−0.5	8344
* 2836	Q (0, 11 ; 20) GR	←	(0, 10 ; 20) GR	A	65.004 68	0.5	8018
* 2837	Q (0, 11 ; 19) GR	←	(0, 10 ; 19) GR	A	65.016 16	1.5	8258
* 2838	Q (0, 11 ; 18) GR	←	(0, 10 ; 18) GR	A	65.026 85	−0.1	8265
* 2839	Q (0, 11 ; 17) GR	←	(0, 10 ; 17) GR	A	65.037 02	0.0	8237
* 2840	Q (0, 11 ; 16) GR	←	(0, 10 ; 16) GR	A	65.046 63	0.3	8323
* 2841	Q (0, 11 ; 15) GR	←	(0, 10 ; 15) GR	A	65.055 52	−1.4	8410
* 2842	Q (0, 11 ; 14) GR	←	(0, 10 ; 14) GR	A	65.063 85	−0.5	8022
* 2843	Q (0, 11 ; 13) GR	←	(0, 10 ; 13) GR	A	65.071 66	−0.2	7890
* 2844	P (1, −5 ; 20) GR	←	(1, −4 ; 21) GR	E	65.074 25	−1.5	3389
* 2845	Q (0, 11 ; 12) GR	←	(0, 10 ; 12) GR	A	65.078 84	−1.8	6932
* 2846	Q (0, 11 ; 11) GR	←	(0, 10 ; 11) GR	A	65.085 54	−1.0	5625
* 2847	P (1, 7 ; 31) GR	←	(1, 6 ; 32) GR	A	65.174 70	−2.6	2629
* 2848	R (0, 5 ; 16) GR	←	(0, 4 ; 15) GR	A	65.298 35	0.2	5332
* 2849	R (0, 4 −; 28) GR	←	(0, 3 −; 27) GR	A	65.306 88	0.2	8959
* 2850	P (1, 6 ; 28) GR	←	(1, 5 ; 29) GR	E	65.313 74	−0.7	2895



Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 2851	R (0, 7 ; 10)	GR	(0, 6 ; 9)	GR	E	65.319 84	0.3	9802
* 2852	R (0, −2 ; 29)	GR	(0, −1 ; 28)	GR	E	65.376 81	−1.4	2702
* 2853	P (2, −5 ; 19)	GR	(1, −6 ; 20)	GR	E	65.442 36	−0.9	4086
* 2854	R (1, 4 ; 4)	GR	(1, 3 ; 3)	GR	A	65.475 86	−0.9	7135
* 2855	R (1, −4 ; 5)	GR	(1, −3 ; 4)	GR	E	65.484 56	0.1	9453
* 2856	R (0, 7 ; 19)	GR	(0, 6 ; 18)	GR	A	65.491 73	−0.7	5224
* 2857	R (0, −7 ; 10)	GR	(0, −6 ; 9)	GR	E	65.499 42	−0.5	8187
* 2858	R (0, 5 ; 24)	GR	(0, 4 ; 23)	GR	E	65.589 87	−1.3	8959
2859	R (0, 4 $^{+}$; 28)	GR	(0, 3 $^{+}$; 27)	GR	A	65.635 26	1.1	7672
* 2860	R (1, −7 ; 29)	GR	(1, −6 ; 28)	GR	E	65.638 98	0.8	4455
* 2861	R (1, 6 ; 21)	GR	(1, 5 ; 20)	GR	A	65.662 87	−0.1	9125
* 2862	R (0, 6 ; 17)	GR	(0, 5 ; 16)	GR	A	65.698 08	−2.8	5118
* 2863	R (0, 9 ; 9)	GR	(0, 8 ; 8)	GR	E	65.740 12	−0.2	9858
* 2864	P (1, −8 ; 25)	GR	(1, −7 ; 26)	GR	E	65.775 80	−1.1	2842
* 2865	R (0, −6 ; 13)	GR	(0, −5 ; 12)	GR	E	65.788 45	−0.2	9814
* 2866	P (1, −1 ; 7)	GR	(1, 0 ; 8)	GR	E	65.820 10	0.0	7597
* 2867	R (0, 8 ; 8)	GR	(0, 7 ; 7)	GR	A	65.882 72	−1.9	9578
* 2868	R (0, −3 ; 27)	GR	(0, −2 ; 26)	GR	E	65.918 75	−1.7	7526
* 2869	R (0, 3 ; 30)	GR	(0, 2 ; 29)	GR	E	65.927 74	−0.5	4513
* 2870	P (2, −2 ; 7)	GR	(2, −1 ; 8)	GR	E	65.939 93	−2.7	3407
* 2871	P (1, 2 ; 5)	GR	(1, 1 ; 6)	GR	E	65.954 62	−0.2	6205
* 2872	R (0, 6 ; 23)	GR	(0, 5 ; 22)	GR	E	66.021 52	−1.0	8747
* 2873	R (0, −4 ; 31)	GR	(0, −3 ; 30)	GR	E	66.101 21	0.1	5735
* 2874	R (0, −5 ; 26)	GR	(0, −4 ; 25)	GR	E	66.176 67	−0.1	8203
* 2875	R (1, 5 ; 13)	GR	(1, 4 ; 12)	GR	E	66.334 76	0.3	8946
* 2876	P (1, 9 ; 18)	GR	(1, 8 ; 19)	GR	E	66.353 05	−0.3	2631
* 2877	P (0, 13 ; 16)	GR	(0, 12 ; 17)	GR	A	66.373 58	−0.3	2421
* 2878	R (0, −8 ; 15)	GR	(0, −7 ; 14)	GR	E	66.419 82	0.5	9745
* 2879	R (0, 4 ; 21)	GR	(0, 3 ; 20)	GR	E	66.450 55	−0.2	9375
* 2880	P (1, 7 ; 30)	GR	(1, 6 ; 31)	GR	A	66.459 49	0.2	2736
* 2881	R (1, 8 ; 19)	GR	(1, 7 ; 18)	GR	A	66.510 71	−2.1	3544
* 2882	R (0, 2 $^{+}$; 28)	GR	(0, 1 $^{+}$; 27)	GR	A	66.563 44	0.0	5954
* 2883	P (1, −5 ; 19)	GR	(1, −4 ; 20)	GR	E	66.631 29	−0.1	3308
2884	P (2, −1 ; 31)	GR	(1, −2 ; 32)	GR	E	66.720 52	−6.5	4500
* 2885	R (0, 4 $^{-}$; 29)	GR	(0, 3 $^{-}$; 28)	GR	A	66.851 66	0.7	6853
* 2886	R (0, 5 ; 17)	GR	(0, 4 ; 16)	GR	A	66.858 20	−0.2	5417
* 2887	R (0, 7 ; 11)	GR	(0, 6 ; 10)	GR	E	66.889 93	−1.2	9888
* 2888	P (2, −5 ; 18)	GR	(1, −6 ; 19)	GR	E	67.018 22	−0.1	4775
* 2889	R (1, 4 ; 5)	GR	(1, 3 ; 4)	GR	A	67.045 52	0.4	8137
* 2890	R (0, 7 ; 20)	GR	(0, 6 ; 19)	GR	A	67.051 75	0.1	9583
* 2891	R (1, −4 ; 6)	GR	(1, −3 ; 5)	GR	E	67.054 68	0.2	9279
* 2892	R (0, −7 ; 11)	GR	(0, −6 ; 10)	GR	E	67.068 94	−0.6	6263
* 2893	R (1, −7 ; 30)	GR	(1, −6 ; 29)	GR	E	67.085 71	−1.5	3951
* 2894	R (1, 6 ; 22)	GR	(1, 5 ; 21)	GR	A	67.115 38	0.9	9482
* 2895	R (0, 5 ; 25)	GR	(0, 4 ; 24)	GR	E	67.132 05	−0.2	8458
* 2896	R (0, −3 ; 28)	GR	(0, −2 ; 27)	GR	E	67.170 86	0.3	6563
* 2897	P (1, 6 ; 27)	GR	(1, 5 ; 28)	GR	E	67.200 23	−0.6	2734
* 2898	P (1, −8 ; 24)	GR	(1, −7 ; 25)	GR	E	67.239 38	−0.3	3079
* 2899	R (0, 6 ; 18)	GR	(0, 5 ; 17)	GR	A	67.256 86	−2.0	6002
* 2900	R (0, 9 ; 10)	GR	(0, 8 ; 9)	GR	E	67.307 11	0.6	9639
* 2901	R (0, −6 ; 14)	GR	(0, −5 ; 13)	GR	E	67.356 86	−1.0	9016
* 2902	P (1, −1 ; 6)	GR	(1, 0 ; 7)	GR	E	67.387 11	0.1	7801
* 2903	R (0, 8 ; 9)	GR	(0, 7 ; 8)	GR	A	67.453 02	−0.7	4935
* 2904	P (2, −2 ; 6)	GR	(2, −1 ; 7)	GR	E	67.509 21	0.0	2788
* 2905	P (1, 2 ; 4)	GR	(1, 1 ; 5)	GR	E	67.524 12	−0.3	5593
* 2906	R (0, 6 ; 24)	GR	(0, 5 ; 23)	GR	E	67.587 67	−0.1	8538
* 2907	R (0, −4 ; 32)	GR	(0, −3 ; 31)	GR	E	67.639 36	−1.2	5253
* 2908	Q (0, 9 ; 36)	GR	(0, 8 ; 36)	GR	A	67.696 47	−0.3	4611
* 2909	Q (0, 9 ; 35)	GR	(0, 8 ; 35)	GR	A	67.717 96	0.7	3822
* 2910	R (0, 3 ; 31)	GR	(0, 2 ; 30)	GR	E	67.728 41	−1.3	6607
* 2911	Q (0, 9 ; 34)	GR	(0, 8 ; 34)	GR	A	67.737 94	−1.7	4679
2912	Q (0, 9 ; 33)	GR	(0, 8 ; 33)	GR	A	67.757 43	3.8	8432
* 2913	R (0, −5 ; 27)	GR	(0, −4 ; 26)	GR	E	67.757 43	−1.4	8432
* 2914	P (1, 7 ; 29)	GR	(1, 6 ; 30)	GR	A	67.760 37	−1.1	3144
* 2915	Q (0, 9 ; 32)	GR	(0, 8 ; 32)	GR	A	67.774 46	0.6	6314
* 2916	Q (1, 3 ; 3)	GR	(1, 2 ; 3)	GR	A	67.784 44	−2.2	4292
* 2917	Q (1, 3 ; 4)	GR	(1, 2 ; 4)	GR	A	67.784 44	−2.8	4292
* 2918	Q (1, 3 ; 5)	GR	(1, 2 ; 5)	GR	A	67.784 44	−3.2	4292
2919	Q (1, 3 ; 6)	GR	(1, 2 ; 6)	GR	A	67.784 44	−8.6	4292
* 2920	Q (1, 3 ; 7)	GR	(1, 2 ; 7)	GR	A	67.786 21	2.0	3618
2921	Q (1, 3 ; 8)	GR	(1, 2 ; 8)	GR	A	67.787 76	5.4	3039
* 2922	Q (1, 3 ; 8)	GR	(1, 2 $^{+}$; 8)	GR	A	67.788 05	0.9	9912
2923	Q (1, 3 ; 9)	GR	(1, 2 $^{-}$; 9)	GR	A	67.789 00	5.2	2610
2924	Q (1, 3 ; 9)	GR	(1, 2 $^{+}$; 9)	GR	A	67.790 78	5.1	4404
* 2925	Q (0, 9 ; 31)	GR	(0, 8 ; 31)	GR	A	67.790 78	1.4	4404
* 2926	Q (1, 3 ; 10)	GR	(1, 2 $^{-}$; 10)	GR	A	67.790 78	−1.5	4404
* 2927	Q (1, 3 ; 10)	GR	(1, 2 $^{+}$; 10)	GR	A	67.793 81	1.9	4382
* 2928	Q (1, 3 ; 11)	GR	(1, 2 $^{-}$; 11)	GR	A	67.793 94	−3.6	4333
* 2929	Q (1, 3 ; 11)	GR	(1, 2 $^{+}$; 11)	GR	A	67.798 41	1.7	5720
2930	Q (1, 3 ; 12)	GR	(1, 2 $^{-}$; 12)	GR	A	67.798 48	−3.7	4316
* 2931	Q (1, 3 ; 12)	GR	(1, 2 $^{+}$; 12)	GR	A	67.804 30	0.5	0
2932	Q (1, 3 ; 13)	GR	(1, 2 $^{-}$; 13)	GR	A	67.805 45	6.5	0
2933	Q (0, 9 ; 30)	GR	(0, 8 ; 30)	GR	A	67.804 75	−11.1	5016
* 2934	Q (1, 3 ; 13)	GR	(1, 2 $^{+}$; 13)	GR	A	67.812 18	0.1	5890
* 2935	Q (1, 3 ; 14)	GR	(1, 2 $^{-}$; 14)	GR	A	67.812 17	−1.0	5228
* 2936	Q (0, 9 ; 29)	GR	(0, 8 ; 29)	GR	A	67.819 69	−0.7	3645
* 2937	Q (1, 3 ; 15)	GR	(1, 2 $^{-}$; 15)	GR	A	67.821 48	−1.3	4906
2938	Q (1, 3 ; 14)	GR	(1, 2 $^{+}$; 14)	GR	A	67.822 61	5.1	3506
* 2939	Q (0, 9 ; 28)	GR	(0, 8 ; 28)	GR	A	67.832 80	1.7	9872
* 2940	Q (1, 3 ; 16)	GR	(1, 2 $^{-}$; 16)	GR	A	67.832 80	−2.3	9872
* 2941	Q (1, 3 ; 15)	GR	(1, 2 $^{+}$; 15)	GR	A	67.834 52	0.8	9433
* 2942	Q (0, 9 ; 27)	GR	(0, 8 ; 27)	GR	A	67.844 41	0.2	8368
* 2943	Q (1, 3 ; 17)	GR	(1, 2 $^{-}$; 17)	GR	A	67.846 68	−2.2	9580
* 2944	Q (1, 3 ; 16)	GR	(1, 2 $^{+}$; 16)	GR	A	67.849 67	1.2	9502
* 2945	Q (0, 9 ; 26)	GR	(0, 8 ; 26)	GR	A	67.855 18	−1.3	8463
* 2946	Q (1, 3 ; 18)	GR	(1, 2 $^{-}$; 18)	GR	A	67.863 18	−2.9	9480
* 2947	Q (0, 9 ; 25)	GR	(0, 8 ; 25)	GR	A	67.865 25	−0.8	8822
* 2948	Q (1, 3 ; 17)	GR	(1, 2 $^{+}$; 17)	GR	A	67.867 82	1.2	9222
* 2949	Q (0, 9 ; 24)	GR	(0, 8 ; 24)	GR	A	67.874 29	−0.3	8724
* 2950	Q (0, 9 ; 23)	GR	(0, 8 ; 23)	GR	A	67.882 67	0.0	9612
2951	Q (1, 3 ; 19)	GR	(1, 2 $^{-}$; 19)	GR	A	67.882 67	−4.0	9612
2952	Q (1, 3 ; 18)	GR	(1, 2 $^{+}$; 18)	GR	A	67.889 84	4.0	5204
* 2953	Q (0, 9 ; 22)	GR	(0, 8 ; 22)	GR	A	67.889 90	−2.8	5350
* 2954	Q (0, 9 ; 21)	GR	(0, 8 ; 21)	GR	A	67.897 14	0.5	9552
* 2955	Q (0, 9 ; 20)	GR	(0, 8 ; 20)	GR	A	67.903 51	−0.9	9650
2956	Q (1, 3 ; 20)	GR	(1, 2 $^{-}$; 20)	GR	A	67.905 36	−5.9	9135
* 2957	Q (0, 9 ; 19)	GR	(0, 8 ; 19)	GR	A	67.909 95	−0.8	9741
* 2958	Q (0, 9 ; 17)	GR	(0, 8 ; 17)	GR	A	67.913 43	−0.1	9723
* 2959	Q (1, 3 ; 19)	GR	(1, 2 $^{+}$; 19)	GR	A	67.915 39	1.8	9673
* 2960	Q (0, 9 ; 16)	GR	(0, 8 ; 16)	GR	A	67.919 01	−0.1	4119
* 2961	Q (0, 9 ; 18)	GR	(0, 8 ; 18)	GR	A	67.920 82	0.3	9619
* 2962	Q (0, 9 ; 15)	GR	(0, 8 ; 15)	GR	A	67.922 88	−0.3	9870
* 2963	Q (0, 9 ; 14)	GR	(0, 8 ; 14)	GR	A	67.926 07	0.3	3940
* 2964	Q (0, 9 ; 13)	GR	(0, 8 ; 13)	GR	A	67.928 76	−0.8	3932
* 2965	Q (0, 9 ; 12)	GR	(0, 8 ; 12)	GR	A	67.931 03	−0.1	5122
* 2966	Q (1, 3 ; 21)	GR	(1, 2 $^{-}$; 21)	GR	A	67.932 62	2.7	9611
2967	Q (0, 9 ; 11)	GR	(0, 8 ; 11)	GR	A	67.932 64	−4.2	4832
* 2968	Q (0, 9 ; 10)	GR	(0, 8 ; 10)	GR	A	67.934 32	−3.6	3872
2969	Q (0, 9 ; 9)	GR	(0, 8 ; 9)	GR	A	67.935 59	−4.2	2524
* 2970	R (1, 5 ; 14)	GR	(1, 4 ; 13)	GR	E	67.936 77	0.3	4471
2971	Q (1, 3 ; 20)	GR	(1, 2 $^{+}$; 20)	GR	A	67.945 50	4.0	9490
* 2972	P (1, 9 ; 17)	GR	(1, 8 ; 18)	GR	E	67.957 05	−0.8	4283
* 2973	Q (1, 3 $^{+}$; 22)	GR	(1, 2 $^{-}$; 22)	GR	A	67.962 19	−0.2	9033
* 2974	R (0, 4 ; 22)	GR	(0, 3 ; 21)	GR	E	67.964 28	−0.1	9568
2975	Q (1, 3 ; 21)	GR	(1, 2 $^{+}$; 21)	GR	A	67.980 31	4.1	5343
* 2976	R (0, −8 ; 16)	GR	(0, −7 ; 15)	GR	E	67.980 59	−0.7	5311
* 2977	Q (1, 3 $^{+}$; 23)	GR	(1, 2 $^{-}$; 23)	GR	A	67.996 90	0.4	8189
* 2978	Q (1, 3 $^{-}$; 22)	GR	(1, 2 $^{+}$; 22)	GR	A	68.020 50	−0.3	8401
* 2979	R (1, 8 ; 20)	GR	(1, 7 ; 19)	GR	A	68.036 31	0.9	8414
* 2980	Q (1, 3 $^{+}$; 24)	GR	(1, 2 $^{-}$; 24)	GR	A	68.036 31	−1.0	8414
* 2981	Q (1, 3 $^{-}$; 23)	GR	(1, 2 $^{+}$; 23)	GR	A	68.066 38	−1.5	8892
* 2982	Q (1, 3 $^{+}$; 25)	GR	(1, 2 $^{-}$; 25)	GR	A	68.080 93	−0.9	7746
* 2983	Q (1, 3 $^{-}$; 24)	GR	(1, 2 $^{+}$; 24)	GR	A	68.118 60	−0.9	7900
* 2984	Q (1, 3 $^{+}$; 26)	GR	(1, 2 $^{-}$; 26)	GR	A	68.131 01	−1.0	7329
* 2985	Q (1, 3 $^{+}$; 27)	GR	(1, 2 $^{-}$; 27)	GR	A	68.177 64	2.8	8088
* 2986	Q (1, 3 $^{-}$; 25)	GR	(1, 2 $^{+}$; 25)	GR	A	68.177 64	0.4	8088
2987	P (2, −1 ; 30)	GR	(1, −2 ; 31)	GR	E	68.177 64	−7.7	8088
* 2988	P (1, −5 ; 18)	GR	(1, −4 ; 19)	GR	E	68.189 84	−0.4	4183
* 2989	Q (1, 3 $^{+}$; 28)	GR	(1, 2 $^{-}$; 28)	GR	A	68.217 74	1.0	4154
2990	Q (1, 3 $^{-}$; 26)	GR	(1, 2 $^{+}$; 26)	GR	A	68.243 41	−4.5	9439
* 2991	Q (1, 3 $^{-}$; 27)	GR	(1, 2 $^{+}$; 27)	GR	A	68.317 94	−0.8	9254
* 2992	R (0, 4 $^{-}$; 30)	GR	(0, 3 $^{-}$; 29)	GR	A	68.390 03	1.4	6598
* 2993	Q (1, 3 $^{-}$; 28)	GR	(1, 2 $^{+}$; 28)	GR	A	68.400 63	−0.4	7007
* 2994	R (0, −3 ; 29)	GR	(0, −2 ; 28)	GR	E	68.402 23	−2.2	6782
* 2995	R (0, 5 ; 18)	GR	(0, 4 ; 17)	GR	A	68.415 47	0.0	6102
* 2996	R (0, 7 ; 12)	GR	(0, 6 ; 11)	GR	E	68.459 77	0.5	9854
* 2997	Q (1, 3 $^{-}$; 29)	GR	(1, 2 $^{+}$; 29)	GR	A	68.492 24	1.4	6018
* 2998	R (1, −7 ; 31)	GR	(1, −6 ; 30)	GR	E	68.522 74	−1.9	3780
* 2999	R (1, 6 ; 23)	GR	(1, 5 ; 22)	GR	A	68.554 69	−0.2	8993
* 3000	Q (1, 3 $^{-}$; 30)	GR	(1, 2 $^{+}$; 30)	GR	A	68.593 33	−1.1	5662

cm 1 2 3 4 5 6 7 8 unesp 12 13 14 15 16 17 18

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 3001	P (2, −5 ; 17) GR	←	(1, −6 ; 18) GR	E	68.595 37	0.6	5022
* 3002	R (0, 7 ; 21) GR	←	(0, 6 ; 20) GR	A	68.610 77	0.1	4668
* 3003	R (1, 4 ; 6) GR	←	(1, 3 ; 5) GR	A	68.615 43	−0.8	7555
* 3004	R (1, −4 ; 7) GR	←	(1, −3 ; 6) GR	E	68.625 17	0.5	9431
* 3005	R (0, −7 ; 12) GR	←	(0, −6 ; 11) GR	E	68.637 75	0.5	9778
* 3006	R (0, 5 ; 26) GR	←	(0, 4 ; 25) GR	E	68.670 93	−0.3	8607
* 3007	R (0, 2 +; 29) GR	←	(0, 1 +; 28) GR	A	68.681 75	−2.2	6049
* 3008	Q (1, 3 −; 31) GR	←	(1, 2 +; 31) GR	A	68.704 72	0.8	5028
* 3009	P (1, −8 ; 23) GR	←	(1, −7 ; 24) GR	E	68.714 29	0.0	3606
* 3010	R (0, 6 ; 19) GR	←	(0, 5 ; 18) GR	A	68.813 80	−0.5	5136
* 3011	Q (1, 3 −; 32) GR	←	(1, 2 +; 32) GR	A	68.826 74	−0.3	4599
* 3012	R (0, 9 ; 11) GR	←	(0, 8 ; 10) GR	E	68.873 14	−0.8	8456
* 3013	R (0, −6 ; 15) GR	←	(0, −5 ; 14) GR	E	68.924 39	−0.1	6840
* 3014	P (1, −1 ; 5) GR	←	(1, 0 ; 6) GR	E	68.955 01	0.5	7221
* 3015	Q (1, 3 −; 33) GR	←	(1, 2 +; 33) GR	A	68.960 25	0.5	4298
* 3016	R (0, 8 ; 10) GR	←	(0, 7 ; 9) GR	A	69.022 65	−0.1	7744
* 3017	P (1, 6 ; 26) GR	←	(1, 5 ; 27) GR	E	69.065 34	0.2	2835
* 3018	P (2, −2 ; 5) GR	←	(2, −1 ; 6) GR	E	69.078 05	−1.1	3790
* 3019	P (1, 7 ; 28) GR	←	(1, 6 ; 29) GR	A	69.078 05	−1.3	3790
* 3020	P (1, 2 ; 3) GR	←	(1, 1 ; 4) GR	E	69.094 10	0.1	4442
* 3021	R (0, 6 ; 25) GR	←	(0, 5 ; 24) GR	E	69.154 07	0.1	8399
* 3022	R (0, −4 ; 33) GR	←	(0, −3 ; 32) GR	E	69.174 60	−0.7	4502
* 3023	R (0, −5 ; 28) GR	←	(0, −4 ; 27) GR	E	69.340 35	−0.1	7400
* 3024	R (0, 4 ; 23) GR	←	(0, 3 ; 22) GR	E	69.469 52	0.3	9261
* 3025	R (0, −8 ; 17) GR	←	(0, −7 ; 16) GR	E	69.540 48	−0.6	9755
* 3026	R (1, 5 ; 15) GR	←	(1, 4 ; 14) GR	E	69.546 68	0.6	8913
* 3027	R (0, 3 ; 32) GR	←	(0, 2 ; 31) GR	E	69.554 04	1.0	3722
* 3028	P (1, 9 ; 16) GR	←	(1, 8 ; 17) GR	E	69.556 26	−1.5	3183
* 3029	R (1, 8 ; 21) GR	←	(1, 7 ; 20) GR	A	69.558 23	−0.9	3641
* 3030	R (0, −3 ; 30) GR	←	(0, −2 ; 29) GR	E	69.614 73	1.5	5869
* 3031	P (2, −1 ; 29) GR	←	(1, −2 ; 30) GR	E	69.647 06	−0.9	3131
* 3032	P (1, −5 ; 17) GR	←	(1, −4 ; 18) GR	E	69.749 99	0.1	4000
* 3033	R (0, 4 −; 31) GR	←	(0, 3 −; 30) GR	A	69.921 02	0.0	5721
* 3034	R (1, −7 ; 32) GR	←	(1, −6 ; 31) GR	E	69.949 98	−0.3	3280
3035	R (0, 5 ; 19) GR	←	(0, 4 ; 18) GR	A	69.970 47	5.8	4383
* 3036	R (1, 6 ; 24) GR	←	(1, 5 ; 23) GR	A	69.980 73	0.6	8793
* 3037	R (0, 7 ; 13) GR	←	(0, 6 ; 12) GR	E	70.029 02	0.5	6373
* 3038	R (0, 7 ; 22) GR	←	(0, 6 ; 21) GR	A	70.169 02	−0.1	9829
* 3039	P (2, −5 ; 16) GR	←	(1, −6 ; 17) GR	E	70.173 92	2.5	6825
* 3040	R (1, 4 ; 7) GR	←	(1, 3 ; 6) GR	A	70.186 33	0.0	7617
* 3041	R (1, −4 ; 8) GR	←	(1, −3 ; 7) GR	E	70.196 04	0.3	9695
* 3042	P (1, −8 ; 22) GR	←	(1, −7 ; 23) GR	E	70.199 96	0.5	3773
* 3043	R (0, −7 ; 13) GR	←	(0, −6 ; 12) GR	E	70.205 05	−2.4	5953
* 3044	R (0, 5 ; 27) GR	←	(0, 4 ; 26) GR	E	70.206 36	−1.2	4957
* 3045	R (0, 6 ; 20) GR	←	(0, 5 ; 19) GR	A	70.368 08	−2.4	4837
* 3046	P (1, 7 ; 27) GR	←	(1, 6 ; 28) GR	A	70.412 69	0.6	4115
* 3047	R (0, 9 ; 12) GR	←	(0, 8 ; 11) GR	E	70.438 05	−0.5	8407
* 3048	R (0, −6 ; 16) GR	←	(0, −5 ; 15) GR	E	70.490 93	−0.1	6504
* 3049	P (1, −1 ; 4) GR	←	(1, 0 ; 5) GR	E	70.523 65	−0.7	7165
* 3050	R (0, 8 ; 11) GR	←	(0, 7 ; 10) GR	A	70.591 79	−0.1	9524
* 3051	P (1, 2 ; 2) GR	←	(1, 1 ; 3) GR	E	70.664 46	0.9	3227
* 3052	R (0, −4 ; 34) GR	←	(0, −3 ; 33) GR	E	70.706 55	0.7	4823
* 3053	R (0, 6 ; 26) GR	←	(0, 5 ; 25) GR	E	70.720 73	0.2	8364
* 3054	R (0, −3 ; 31) GR	←	(0, −2 ; 30) GR	E	70.809 67	1.1	5344
* 3055	R (0, 2 +; 30) GR	←	(0, 1 +; 29) GR	A	70.826 74	−0.3	4794
* 3056	P (1, 6 ; 25) GR	←	(1, 5 ; 26) GR	E	70.908 68	1.0	1029
* 3057	R (0, −5 ; 29) GR	←	(0, −4 ; 28) GR	E	70.925 00	0.0	6529
* 3058	R (0, 4 ; 24) GR	←	(0, 3 ; 23) GR	E	70.965 61	0.6	9231
* 3059	R (0, −9 ; 9) GR	←	(0, −8 ; 8) GR	E	71.012 93	0.0	9897
* 3060	R (1, 8 ; 22) GR	←	(1, 7 ; 21) GR	A	71.076 74	0.4	3172
* 3061	R (0, −8 ; 18) GR	←	(0, −7 ; 17) GR	E	71.098 79	−0.3	9604
* 3062	P (2, −1 ; 28) GR	←	(1, −2 ; 29) GR	E	71.126 69	−0.1	3935
* 3063	P (1, 9 ; 15) GR	←	(1, 8 ; 16) GR	E	71.151 36	−0.4	3137
* 3064	R (1, 5 ; 16) GR	←	(1, 4 ; 15) GR	E	71.165 57	−0.2	8418
* 3065	P (1, −5 ; 16) GR	←	(1, −4 ; 17) GR	E	71.311 47	−1.6	4038
* 3066	R (1, −7 ; 33) GR	←	(1, −6 ; 32) GR	E	71.366 92	0.2	3251
* 3067	R (1, 6 ; 25) GR	←	(1, 5 ; 24) GR	A	71.393 01	−0.4	9355
* 3068	R (0, 3 ; 33) GR	←	(0, 2 ; 32) GR	E	71.403 59	−1.7	3696
* 3069	R (0, 4 −; 32) GR	←	(0, 3 −; 31) GR	A	71.443 63	−0.2	5156
3070	R (0, 5 ; 20) GR	←	(0, 4 +; 19) GR	A	71.520 71	−3.9	9625
* 3071	R (0, 5 ; 20) GR	←	(0, 4 −; 19) GR	A	71.522 04	1.2	9612
* 3072	R (0, 7 ; 14) GR	←	(0, 6 ; 13) GR	E	71.597 89	0.0	7180
* 3073	P (1, −8 ; 21) GR	←	(1, −7 ; 22) GR	E	71.695 25	−1.4	3074
* 3074	R (0, 7 ; 23) GR	←	(0, 6 ; 22) GR	A	71.726 35	0.7	5164
* 3075	R (0, 5 ; 28) GR	←	(0, 4 ; 27) GR	E	71.738 61	0.6	7466

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 3076	P (2, −5 ; 15) GR	←	(1, −6 ; 16) GR	E	71.752 77	0.4	5570
* 3077	R (1, 4 ; 8) GR	←	(1, 3 ; 7) GR	A	71.758 50	−0.3	7490
* 3078	P (1, 7 ; 26) GR	←	(1, 6 ; 27) GR	A	71.763 70	−0.8	4029
* 3079	R (1, −4 ; 9) GR	←	(1, −3 ; 8) GR	E	71.767 62	−0.1	7339
* 3080	R (0, −7 ; 14) GR	←	(0, −6 ; 13) GR	E	71.771 70	−0.5	5980
* 3081	Q (0, −11 ; 35) GR	←	(0, −10 ; 35) GR	E	71.885 84	1.2	2667
* 3082	R (0, 6 ; 21) GR	←	(0, 5 ; 20) GR	A	71.920 15	−0.1	9910
* 3083	Q (0, −11 ; 34) GR	←	(0, −10 ; 34) GR	E	71.930 95	0.5	2610
* 3084	R (0, −3 ; 32) GR	←	(0, −2 ; 31) GR	E	71.945 09	−4.2	5421
* 3085	Q (0, −11 ; 33) GR	←	(0, −10 ; 33) GR	E	71.972 70	1.4	3607
* 3086	R (0, 9 ; 13) GR	←	(0, 8 ; 12) GR	E	72.001 76	0.0	8578
* 3087	Q (0, −11 ; 32) GR	←	(0, −10 ; 32) GR	E	72.011 25	1.2	3740
* 3088	Q (0, −11 ; 31) GR	←	(0, −10 ; 31) GR	E	72.046 77	1.6	3595
* 3089	R (0, −6 ; 17) GR	←	(0, −5 ; 16) GR	E	72.056 38	−0.5	6787
* 3090	Q (0, −11 ; 30) GR	←	(0, −10 ; 30) GR	E	72.079 77	0.3	3526
* 3091	P (1, −1 ; 3) GR	←	(1, 0 ; 4) GR	E	72.092 92	−0.4	6160
* 3092	Q (0, −11 ; 29) GR	←	(0, −10 ; 29) GR	E	72.110 31	−0.6	4040
* 3093	Q (0, −11 ; 28) GR	←	(0, −10 ; 28) GR	E	72.138 34	0.9	4197
* 3094	R (0, 8 ; 8) GR	←	(0, 7 ; 7) GR	E	72.153 72	0.2	8569
* 3095	R (0, 8 ; 12) GR	←	(0, 7 ; 11) GR	A	72.160 74	1.5	3962
* 3096	Q (0, −11 ; 27) GR	←	(0, −10 ; 27) GR	E	72.164 06	0.7	4584
* 3097	Q (0, −11 ; 25) GR	←	(0, −10 ; 25) GR	E	72.209 36	−0.7	5509
* 3098	Q (0, −11 ; 24) GR	←	(0, −10 ; 24) GR	E	72.229 05	−1.4	5747
* 3099	R (0, −4 ; 35) GR	←	(0, −3 ; 34) GR	E	72.234 88	−0.1	4164
* 3100	Q (0, −11 ; 23) GR	←	(0, −10 ; 23) GR	E	72.247 16	−0.9	5686
* 3101	Q (0, −11 ; 22) GR	←	(0, −10 ; 22) GR	E	72.263 67	−1.7	5875
* 3102	Q (0, −11 ; 21) GR	←	(0, −10 ; 21) GR	E	72.278 64	−1.0	6520
* 3103	R (0, 6 ; 27) GR	←	(0, 5 ; 26) GR	E	72.287 87	0.0	8003
* 3104	Q (0, −11 ; 20) GR	←	(0, −10 ; 20) GR	E	72.292 13	0.0	6666
* 3105	Q (0, −11 ; 19) GR	←	(0, −10 ; 19) GR	E	72.304 38	1.4	6919
* 3106	Q (0, −11 ; 18) GR	←	(0, −10 ; 18) GR	E	72.315 40	0.0	6966
* 3107	Q (0, −11 ; 17) GR	←	(0, −10 ; 17) GR	E	72.325 37	−0.2	7144
* 3108	Q (0, −11 ; 16) GR	←	(0, −10 ; 16) GR	E	72.334 18	−1.2	6811
* 3109	Q (0, −11 ; 15) GR	←	(0, −10 ; 15) GR	E	72.342 20	0.5	6736
* 3110	Q (0, −11 ; 14) GR	←	(0, −10 ; 14) GR	E	72.349 31	0.2	7251
* 3111	Q (0, −11 ; 13) GR	←	(0, −10 ; 13) GR	E	72.355 62	−0.4	6272
* 3112	Q (2, 8 ; 10) GR	←	(2, 7 ; 10) GR	A	72.356 00	0.0	0
* 3113	Q (0, −11 ; 12) GR	←	(0, −10 ; 12) GR	E	72.361 10	0.3	5892
* 3114	Q (2, 8 ; 9) GR	←	(2, 7 ; 9) GR	A	72.361 70	0.0	0
* 3115	Q (2, 8 ; 8) GR	←	(2, 7 ; 8) GR	A	72.366 00	0.0	0
* 3116	Q (0, −11 ; 11) GR	←	(0, −10 ; 11) GR	E	72.366 19	0.4	4732
* 3117	R (0, 4 ; 25) GR	←	(0, 3 ; 24) GR	E	72.451 69	−0.7	8353
* 3118	R (1, 3 ; 3) GR	←	(1, 2 ; 2) GR	A	72.495 88	0.4	5304
* 3119	R (0, −5 ; 30) GR	←	(0, −4 ; 29) GR	E	72.511 77	0.3	6840
* 3120	R (0, −9 ; 10) GR	←	(0, −8 ; 9) GR	E	72.581 21	−0.3	6494
* 3121	R (1, 8 ; 23) GR	←	(1, 7 ; 22) GR	A	72.591 31	−1.4	3299
* 3122	P (2, −1 ; 27) GR	←	(1, −2 ; 28) GR	E	72.616 63	0.3	4046
* 3123	R (0, −8 ; 19) GR	←	(0, −7 ; 18) GR	E	72.655 77	−0.4	9624
* 3124	P (1, 6 ; 24) GR	←	(1, 5 ; 25) GR	E	72.730 25	0.1	3228
* 3125	P (1, 9 ; 14) GR	←	(1, 8 ; 15) GR	E	72.742 36	0.9	2591
3126	R (1, −7 ; 34) GR	←	(1, −6 ; 33) GR	E	72.774 70	5.2	4824
* 3127	R (1, 6 ; 26) GR	←	(1, 5 ; 25) GR	A	72.791 60	0.0	8059
* 3128	R (1, 5 ; 17) GR	←	(1, 4 ; 16) GR	E	72.794 15	−2.0	8660
* 3129	P (1, −5 ; 15) GR	←	(1, −4 ; 16) GR	E	72.874 40	−0.6	4456
* 3130	R (0, 4 −; 33) GR	←	(0, 3 −; 32) GR	A	72.956 53	−1.0	4833
* 3131	R (0, −3 ; 33) GR	←	(0, −2 ; 32) GR	E	73.015 08	0.0	4639
* 3132	R (0, 5 ; 21) GR	←	(0, 4 +; 20) GR	A	73.068 29	−0.7	1378
* 3133	R (0, 5 ; 21) GR	←	(0, 4 −; 20) GR	A	73.069 97	−3.2	5131
* 3134	P (1, 7 ; 25) GR	←	(1, 6 ; 26) GR	A	73.131 32	0.0	3753
* 3135	R (0, 7 ; 15) GR	←	(0, 6 ; 14) GR	E	73.166 08	−0.1	6886
* 3136	P (1, −8 ; 20) GR	←	(1, −7 ; 21) GR	E	73.200 27	1.2	3603
* 3137	P (2, 3 ; 29) GR	←	(1, 4 ; 30) GR	A	73.244 75	1.2	5191
* 3138	R (0, 5 ; 29) GR	←	(0, 4 ; 28) GR	E	73.266 86	0.4	7956
* 3139	R (0, 3 ; 34) GR	←	(0, 2 ; 33) GR	E	73.278 00	−1.0	3497
* 3140	R (0, 7 ; 24) GR	←	(0, 6 ; 23) GR	A	73.282 75	−0.1	5421
* 3141	R (1, 4 ; 9) GR	←	(1, 3 ; 8) GR	A	73.332 51	0.0	9010
* 3142	P (2, −5 ; 14) GR	←	(1, −6 ; 15) GR	E	73.332 51	−0.7	9010
* 3143	R (0, −7 ; 15) GR	←	(0, −6 ; 14) GR	E	73.336 78	−0.8	9630
* 3144	R (1, −4 ; 10) GR	←	(1, −3 ; 9) GR	E	73.339 98	−1.0	9556
* 3145	R (0, 6 ; 22) GR	←	(0, 5 ; 21) GR	A	73.469 40	−0.1	9828
* 3146	R (0, 9 ; 14) GR	←	(0, 8 ; 13) GR	E	73.564 27	−0.6	9525
* 3147	R (0, −6 ; 18) GR	←	(0, −5 ; 17) GR	E	73.620 68	1.2	6534
* 3148	P (1, −1 ; 2) GR	←	(1, 0 ; 3) GR	E	73.662 75	0.4	5176
* 3149	R (0, 8 ; 9) GR	←	(0, 7 ; 8) GR	E	73.724 96	−0.4	6506
* 3150	R (0, 8 ; 13) GR	←	(0, 7 ; 12) GR	A	73.728 45	−2.7	4660



Index	upper state T (n, K ; J) ν	lower state (n, K ; J) ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 3151	R (0, 6 ; 28) GR	← (0, 5 ; 27) GR	E	73.855 48	0.0	7598
* 3152	R (0, 4 ; 26) GR	← (0, 3 ; 25) GR	E	73.927 40	0.7	8384
* 3153	R (0, −3 ; 34) GR	← (0, −2 ; 33) GR	E	74.018 33	0.0	3421
* 3154	R (1, 3 ; 4) GR	← (1, 2 ; 3) GR	A	74.066 04	0.2	9809
* 3155	R (0, −5 ; 31) GR	← (0, −4 ; 30) GR	E	74.100 91	−0.4	6615
* 3156	R (1, 8 ; 24) GR	← (1, 7 ; 23) GR	A	74.102 81	1.8	4451
* 3157	P (2, −1 ; 26) GR	← (1, −2 ; 27) GR	E	74.116 29	−2.4	5440
* 3158	R (0, −9 ; 11) GR	← (0, −8 ; 10) GR	E	74.148 98	−1.2	6645
* 3159	R (1, −7 ; 35) GR	← (1, −6 ; 34) GR	E	74.170 22	−1.5	3301
* 3160	R (1, 6 ; 27) GR	← (1, 5 ; 26) GR	A	74.176 26	0.6	8200
* 3161	R (0, −8 ; 20) GR	← (0, −7 ; 19) GR	E	74.211 34	0.4	9502
* 3162	P (1, 9 ; 13) GR	← (1, 8 ; 14) GR	E	74.329 59	1.3	2765
* 3163	R (1, 5 ; 18) GR	← (1, 4 ; 17) GR	E	74.434 08	0.6	7926
* 3164	P (1, −5 ; 14) GR	← (1, −4 ; 15) GR	E	74.438 49	−0.3	4520
* 3165	R (0, 4 − ; 34) GR	← (0, 3 − ; 33) GR	A	74.458 73	0.3	4461
* 3166	P (1, 7 ; 24) GR	← (1, 6 ; 25) GR	A	74.515 25	−1.5	4136
* 3167	P (1, 6 ; 23) GR	← (1, 5 ; 24) GR	E	74.530 06	−1.7	3498
3168	P (1, 9 ; 29) GR	← (0, 10 ; 30) GR	A	74.587 00	4.3	3052
* 3169	R (0, 5 ; 22) GR	← (0, 4 + ; 21) GR	A	74.612 24	1.1	9116
* 3170	R (0, 5 ; 22) GR	← (0, 4 − ; 21) GR	A	74.615 07	0.1	9572
* 3171	Q (0, −10 ; 39) GR	← (0, −9 ; 39) GR	E	74.642 22	0.0	2348
* 3172	Q (0, −10 ; 38) GR	← (0, −9 ; 38) GR	E	74.649 04	0.5	2259
* 3173	Q (0, −10 ; 37) GR	← (0, −9 ; 37) GR	E	74.655 80	0.6	2582
* 3174	Q (0, −10 ; 36) GR	← (0, −9 ; 36) GR	E	74.662 39	1.2	2662
* 3175	Q (0, −10 ; 35) GR	← (0, −9 ; 35) GR	E	74.668 26	0.3	2916
* 3176	Q (0, −10 ; 34) GR	← (0, −9 ; 34) GR	E	74.674 39	−2.2	3053
* 3177	Q (0, −10 ; 33) GR	← (0, −9 ; 33) GR	E	74.680 36	−1.6	3746
* 3178	Q (0, −10 ; 32) GR	← (0, −9 ; 32) GR	E	74.686 34	0.2	3991
* 3179	Q (0, −10 ; 31) GR	← (0, −9 ; 31) GR	E	74.691 98	0.3	4247
* 3180	Q (0, −10 ; 30) GR	← (0, −9 ; 30) GR	E	74.697 33	−0.6	4695
* 3181	Q (0, −10 ; 29) GR	← (0, −9 ; 29) GR	E	74.702 68	−0.4	5240
* 3182	Q (0, −10 ; 28) GR	← (0, −9 ; 28) GR	E	74.707 81	−0.2	5487
* 3183	Q (0, −10 ; 27) GR	← (0, −9 ; 27) GR	E	74.712 94	1.0	6260
3184	P (1, −8 ; 19) GR	← (1, −7 ; 20) GR	E	74.712 94	−6.7	6260
* 3185	Q (0, −10 ; 26) GR	← (0, −9 ; 26) GR	E	74.717 43	1.0	6394
* 3186	Q (0, −10 ; 25) GR	← (0, −9 ; 25) GR	E	74.721 92	0.5	7095
* 3187	Q (0, −10 ; 24) GR	← (0, −9 ; 24) GR	E	74.726 31	0.0	7287
* 3188	Q (0, −10 ; 23) GR	← (0, −9 ; 23) GR	E	74.730 51	1.7	7307
3189	R (0, 7 ; 16) GR	← (0, 6 ; 15) GR	E	74.734 25	4.1	6841
* 3190	Q (0, −10 ; 22) GR	← (0, −9 ; 22) GR	E	74.734 25	−1.6	6841
* 3191	Q (0, −10 ; 21) GR	← (0, −9 ; 21) GR	E	74.738 12	−1.6	8393
* 3192	Q (0, −10 ; 20) GR	← (0, −9 ; 20) GR	E	74.741 80	0.1	8320
* 3193	Q (0, −10 ; 19) GR	← (0, −9 ; 19) GR	E	74.745 21	−1.5	8125
* 3194	Q (0, −10 ; 18) GR	← (0, −9 ; 18) GR	E	74.748 53	1.7	8286
* 3195	Q (0, −10 ; 17) GR	← (0, −9 ; 17) GR	E	74.751 57	0.3	7924
* 3196	Q (0, −10 ; 16) GR	← (0, −9 ; 16) GR	E	74.754 29	−0.1	8781
* 3197	Q (0, −10 ; 15) GR	← (0, −9 ; 15) GR	E	74.757 05	−0.7	8805
* 3198	Q (0, −10 ; 14) GR	← (0, −9 ; 14) GR	E	74.759 44	−0.7	8411
* 3199	Q (0, −10 ; 13) GR	← (0, −9 ; 13) GR	E	74.761 87	−0.8	8563
* 3200	Q (0, −10 ; 12) GR	← (0, −9 ; 12) GR	E	74.763 99	−1.4	8359
* 3201	Q (0, −10 ; 11) GR	← (0, −9 ; 11) GR	E	74.765 85	−0.2	7536
* 3202	Q (0, −10 ; 10) GR	← (0, −9 ; 10) GR	E	74.767 72	−0.8	6210
* 3203	R (0, 5 ; 30) GR	← (0, 4 ; 29) GR	E	74.791 38	1.1	7550
* 3204	R (0, 7 ; 25) GR	← (0, 6 ; 24) GR	A	74.838 36	1.8	9756
* 3205	R (0, −7 ; 16) GR	← (0, −6 ; 15) GR	E	74.900 37	−0.8	8414
* 3206	R (1, 4 ; 10) GR	← (1, 3 ; 9) GR	A	74.908 79	0.2	7753
3207	P (2, −5 ; 13) GR	← (1, −6 ; 14) GR	E	74.913 59	9.0	9644
* 3208	R (1, −4 ; 11) GR	← (1, −3 ; 10) GR	E	74.913 59	−0.7	9644
* 3209	R (0, 6 ; 23) GR	← (0, 5 ; 22) GR	A	75.015 60	−1.2	9820
* 3210	P (2, 3 ; 28) GR	← (1, 4 ; 29) GR	A	75.056 67	−1.6	4255
* 3211	R (0, 9 ; 15) GR	← (0, 8 ; 14) GR	E	75.125 35	−0.4	9785
* 3212	R (0, 3 ; 35) GR	← (0, 2 ; 34) GR	E	75.175 51	−2.8	2234
* 3213	R (0, −6 ; 19) GR	← (0, −5 ; 18) GR	E	75.183 61	−0.4	5102
* 3214	P (1, −1 ; 1) GR	← (1, 0 ; 2) GR	E	75.232 85	0.1	4132
* 3215	R (0, 8 ; 10) GR	← (0, 7 ; 9) GR	E	75.295 33	−2.0	5928
* 3216	R (0, 8 ; 14) GR	← (0, 7 ; 13) GR	A	75.296 76	0.9	9830
* 3217	Q (1, 2 ; 3) GR	← (1, 1 ; 3) GR	E	75.375 48	−1.9	6423
* 3218	Q (1, 2 ; 2) GR	← (1, 1 ; 2) GR	E	75.375 48	−2.2	6423
* 3219	Q (1, 2 ; 4) GR	← (1, 1 ; 4) GR	E	75.375 48	−2.8	6423
3220	Q (1, 2 ; 5) GR	← (1, 1 ; 5) GR	E	75.375 48	−5.7	6423
3221	Q (1, 2 ; 6) GR	← (1, 1 ; 6) GR	E	75.377 13	5.5	5599
3222	Q (1, 2 ; 7) GR	← (1, 1 ; 7) GR	E	75.377 13	−4.0	5599
* 3223	Q (1, 2 ; 8) GR	← (1, 1 ; 8) GR	E	75.379 03	0.0	5618
* 3224	Q (1, 2 ; 9) GR	← (1, 1 ; 9) GR	E	75.381 34	0.7	5845
* 3225	Q (1, 2 ; 10) GR	← (1, 1 ; 10) GR	E	75.384 36	−0.1	6958

Index	upper state T (n, K ; J) ν	lower state (n, K ; J) ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 3226	Q (1, 2 ; 11) GR	← (1, 1 ; 11) GR	E	75.388 57	−0.4	7714
* 3227	R (0, 4 ; 27) GR	← (0, 3 ; 26) GR	E	75.392 00	0.1	8771
* 3228	Q (1, 2 ; 12) GR	← (1, 1 ; 12) GR	E	75.393 97	−0.4	5143
* 3229	Q (1, 2 ; 13) GR	← (1, 1 ; 13) GR	E	75.401 17	−0.1	9762
* 3230	Q (1, 2 ; 14) GR	← (1, 1 ; 14) GR	E	75.410 02	0.2	9844
* 3231	Q (1, 2 ; 15) GR	← (1, 1 ; 15) GR	E	75.421 04	0.5	9566
* 3232	R (0, 6 ; 29) GR	← (0, 5 ; 28) GR	E	75.423 71	0.4	7305
* 3233	Q (1, 2 ; 16) GR	← (1, 1 ; 16) GR	E	75.434 32	0.1	9641
* 3234	Q (1, 2 ; 17) GR	← (1, 1 ; 17) GR	E	75.450 28	−1.1	9562
* 3235	Q (1, 2 ; 18) GR	← (1, 1 ; 18) GR	E	75.469 47	0.1	9591
* 3236	Q (1, 2 ; 19) GR	← (1, 1 ; 19) GR	E	75.492 05	1.1	9446
* 3237	Q (1, 2 ; 20) GR	← (1, 1 ; 20) GR	E	75.518 24	0.5	9614
* 3238	R (1, 6 ; 28) GR	← (1, 5 ; 27) GR	A	75.547 13	0.6	7930
* 3239	Q (1, 2 ; 21) GR	← (1, 1 ; 21) GR	E	75.548 65	0.9	9161
* 3240	R (1, −7 ; 36) GR	← (1, −6 ; 35) GR	E	75.556 23	−0.1	2793
* 3241	Q (1, 2 ; 22) GR	← (1, 1 ; 22) GR	E	75.583 52	−0.4	8533
* 3242	R (1, 8 ; 25) GR	← (1, 7 ; 24) GR	A	75.609 59	0.7	2646
* 3243	Q (1, 2 ; 23) GR	← (1, 1 ; 23) GR	E	75.623 37	−1.3	8923
* 3244	P (2, −1 ; 25) GR	← (1, −2 ; 26) GR	E	75.625 50	0.5	5763
* 3245	R (1, 3 ; 5) GR	← (1, 2 ; 4) GR	A	75.636 17	0.0	4993
* 3246	Q (1, 2 ; 24) GR	← (1, 1 ; 24) GR	E	75.668 66	−0.5	8285
* 3247	R (0, −5 ; 32) GR	← (0, −4 ; 31) GR	E	75.692 54	0.0	5754
* 3248	R (0, −9 ; 12) GR	← (0, −8 ; 11) GR	E	75.716 05	0.2	7456
* 3249	Q (1, 2 ; 25) GR	← (1, 1 ; 25) GR	E	75.719 68	−0.1	8025
* 3250	R (0, −8 ; 21) GR	← (0, −7 ; 20) GR	E	75.765 29	−0.7	9328
* 3251	Q (1, 2 ; 26) GR	← (1, 1 ; 26) GR	E	75.777 01	0.9	7852
* 3252	Q (1, 2 ; 27) GR	← (1, 1 ; 27) GR	E	75.841 09	−0.4	7667
* 3253	Q (1, 2 ; 28) GR	← (1, 1 ; 28) GR	E	75.912 40	−1.3	6927
* 3254	P (1, 7 ; 23) GR	← (1, 6 ; 24) GR	A	75.915 61	−0.1	4966
* 3255	Q (1, 2 ; 29) GR	← (1, 1 ; 29) GR	E	75.991 40	0.2	6247
* 3256	P (1, −5 ; 13) GR	← (1, −4 ; 14) GR	E	76.003 56	−0.8	4872
* 3257	Q (1, 2 ; 30) GR	← (1, 1 ; 30) GR	E	76.078 56	0.0	5776
* 3258	R (1, 5 ; 19) GR	← (1, 4 ; 18) GR	E	76.085 70	0.5	7840
* 3259	R (0, 5 ; 23) GR	← (0, 4 + ; 22) GR	A	76.151 69	−0.8	9614
* 3260	R (0, 5 ; 23) GR	← (0, 4 − ; 22) GR	A	76.156 01	0.4	9373
* 3261	Q (1, 2 ; 31) GR	← (1, 1 ; 31) GR	E	76.174 32	−0.4	5389
* 3262	P (1, −8 ; 18) GR	← (1, −7 ; 19) GR	E	76.234 97	−0.3	4939
* 3263	P (1, 9 ; 28) GR	← (0, 10 ; 29) GR	A	76.245 90	−0.9	2569
* 3264	Q (1, 2 ; 32) GR	← (1, 1 ; 32) GR	E	76.279 32	−1.3	4929
* 3265	R (0, 7 ; 17) GR	← (0, 6 ; 16) GR	E	76.301 08	−0.4	6318
* 3266	P (1, 6 ; 22) GR	← (1, 5 ; 23) GR	E	76.308 97	0.4	4078
* 3267	R (0, 5 ; 31) GR	← (0, 4 ; 30) GR	E	76.311 53	1.0	6062
* 3268	R (0, 10 ; 10) GR	← (0, 9 ; 9) GR	E	76.382 51	0.4	9547
* 3269	R (0, 7 ; 26) GR	← (0, 6 ; 25) GR	A	76.393 02	0.4	9174
* 3270	Q (1, 2 ; 33) GR	← (1, 1 ; 33) GR	E	76.393 78	−0.6	3551
* 3271	R (0, −7 ; 17) GR	← (0, −6 ; 16) GR	E	76.462 37	0.2	9828
3272	R (1, 4 ; 11) GR	← (1, 3 ; 10) GR	A	76.488 55	6.1	9896
* 3273	R (1, −4 ; 12) GR	← (1, −3 ; 11) GR	E	76.488 55	−1.6	9896
* 3274	P (2, −5 ; 12) GR	← (1, −6 ; 13) GR	E	76.493 18	0.4	6779
* 3275	Q (1, 2 ; 34) GR	← (1, 1 ; 34) GR	E	76.518 83	0.3	3932
* 3276	R (0, 6 ; 24) GR	← (0, 5 ; 23) GR	A	76.558 82	−0.1	9592
* 3277	Q (1, 2 ; 35) GR	← (1, 1 ; 35) GR	E	76.654 40	2.2	3625
* 3278	R (0, 9 ; 16) GR	← (0, 8 ; 15) GR	E	76.685 02	−0.1	9725
* 3279	R (0, −6 ; 20) GR	← (0, −5 ; 19) GR	E	76.745 23	0.1	9837
* 3280	R (0, 4 ; 28) GR	← (0, 3 ; 27) GR	E	76.844 79	−0.6	8207
* 3281	P (2, 3 ; 27) GR	← (1, 4 ; 28) GR	A	76.855 70	−0.4	5265
* 3282	R (0, 8 ; 15) GR	← (0, 7 ; 14) GR	A	76.863 82	−1.7	5133
* 3283	R (0, 8 ; 11) GR	← (0, 7 ; 10) GR	E	76.865 41	−0.8	5077
* 3284	R (1, 6 ; 29) GR	← (1, 5 ; 28) GR	A	76.904 26	1.0	7849
* 3285	R (0, 6 ; 30) GR	← (0, 5 ; 29) GR	E	76.992 72	−0.3	6564
3286	R (0, 3 ; 36) GR	← (0, 2 ; 35) GR	E	77.096 28	4.4	6907
* 3287	R (1, 8 ; 26) GR	← (1, 7 ; 25) GR	A	77.112 22	0.0	2556
* 3288	P (2, −1 ; 24) GR	← (1, −2 ; 25) GR	E	77.143 06	−0.4	5543
* 3289	R (1, 3 ; 6) GR	← (1, 2 ; 5) GR	A	77.206 29	0.5	9864
* 3290	R (0, −9 ; 13) GR	← (0, −8 ; 12) GR	E	77.282 61	−0.3	6895
* 3291	R (0, −5 ; 33) GR	← (0, −4 ; 32) GR	E	77.286 93	1.9	5870
* 3292	R (0, −8 ; 22) GR	← (0, −7 ; 21) GR	E	77.317 69	−0.8	8846
* 3293	R (0, 10 ; 10) GR	← (0, 9 ; 9) GR	A	77.325 01	−0.9	5260
* 3294	P (1, 7 ; 22) GR	← (1, 6 ; 23) GR	A	77.331 49	−1.9	5520
* 3295	P (1, −5 ; 12) GR	← (1, −4 ; 13) GR	E	77.569 68	−0.5	4385
* 3296	R (0, 5 ; 24) GR	← (0, 4 + ; 23) GR	A	77.686 68	−0.7	9217
* 3297	R (0, 5 ; 24) GR	← (0, 4 − ; 23) GR	A	77.692 71	−0.3	9313
* 3298	R (1, 5 ; 20) GR	← (1, 4 ; 19) GR	E	77.749 99	0.3	7524
* 3299	P (1, −8 ; 17) GR	← (1, −7 ; 18) GR	E	77.763 67	0.5	4008
* 3300	R (0, 5 ; 32) GR	← (0, 4 ; 31) GR	E	77.827 47	0.6	5448

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Index	upper state T (n, K ; J)	v	←	lower state (n, K ; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 3301	R (0, 7 ; 18)	GR	← (0, 6 ; 17)	GR	E	77.867 73	0.5	6989
* 3302	P (1, 9 ; 27)	GR	← (0, 10 ; 28)	GR	A	77.901 64	0.3	2573
* 3303	R (0, 7 ; 27)	GR	← (0, 6 ; 26)	GR	A	77.946 83	0.0	9294
* 3304	R (0, 10 ; 11)	GR	← (0, 9 ; 10)	GR	E	77.948 65	−0.3	9907
* 3305	R (0, −7 ; 18)	GR	← (0, −6 ; 17)	GR	E	78.022 45	0.5	9874
* 3306	R (1, −4 ; 13)	GR	← (1, −3 ; 12)	GR	E	78.065 69	0.6	9606
3307	P (1, 6 ; 21)	GR	← (1, 5 ; 22)	GR	E	78.065 69	−6.6	9606
* 3308	R (1, 4 ; 12)	GR	← (1, 3 ; 11)	GR	A	78.070 71	0.1	7739
* 3309	P (2, −5 ; 11)	GR	← (1, −6 ; 12)	GR	E	78.073 48	−0.8	6304
* 3310	R (0, 6 ; 25)	GR	← (0, 5 ; 24)	GR	A	78.098 68	0.8	9758
* 3311	R (0, 9 ; 17)	GR	← (0, 8 ; 16)	GR	E	78.243 15	−0.7	9401
* 3312	R (1, 6 ; 30)	GR	← (1, 5 ; 29)	GR	A	78.247 86	0.5	6801
* 3313	R (0, 4 ; 29)	GR	← (0, 3 ; 28)	GR	E	78.285 42	−0.4	7493
* 3314	R (0, −6 ; 21)	GR	← (0, −5 ; 20)	GR	E	78.305 34	0.4	9567
3315	Q (1, −1 ; 1)	GR	← (1, 0 ; 1)	GR	E	78.374 29	4.3	7459
* 3316	Q (1, −1 ; 2)	GR	← (1, 0 ; 2)	GR	E	78.374 29	1.3	7459
* 3317	Q (1, −1 ; 3)	GR	← (1, 0 ; 3)	GR	E	78.374 29	−3.3	7459
3318	Q (1, −1 ; 4)	GR	← (1, 0 ; 4)	GR	E	78.376 18	7.8	6720
* 3319	Q (1, −1 ; 5)	GR	← (1, 0 ; 5)	GR	E	78.376 18	−3.0	6720
* 3320	Q (1, −1 ; 6)	GR	← (1, 0 ; 6)	GR	E	78.378 10	0.5	6791
* 3321	Q (1, −1 ; 7)	GR	← (1, 0 ; 7)	GR	E	78.380 24	0.5	9605
* 3322	Q (1, −1 ; 8)	GR	← (1, 0 ; 8)	GR	E	78.382 95	−0.6	9503
* 3323	Q (1, −1 ; 9)	GR	← (1, 0 ; 9)	GR	E	78.386 80	0.2	9744
* 3324	Q (1, −1 ; 10)	GR	← (1, 0 ; 10)	GR	E	78.391 48	−0.1	6019
* 3325	Q (1, −1 ; 11)	GR	← (1, 0 ; 11)	GR	E	78.397 44	−0.3	9821
* 3326	Q (1, −1 ; 12)	GR	← (1, 0 ; 12)	GR	E	78.404 90	−1.0	9847
* 3327	Q (2, −2 ; 25)	GR	← (2, −1 ; 25)	GR	E	78.414 11	2.7	5915
* 3328	Q (1, −1 ; 13)	GR	← (1, 0 ; 13)	GR	E	78.414 11	0.5	5915
* 3329	Q (2, −2 ; 24)	GR	← (2, −1 ; 24)	GR	E	78.422 75	1.4	5230
* 3330	Q (1, −1 ; 14)	GR	← (1, 0 ; 14)	GR	E	78.425 21	−0.6	9672
3331	Q (2, −2 ; 23)	GR	← (2, −1 ; 23)	GR	E	78.430 98	4.0	9862
* 3332	R (0, 8 ; 16)	GR	← (0, 7 ; 15)	GR	A	78.430 98	−0.1	9862
* 3333	R (0, 8 ; 12)	GR	← (0, 7 ; 11)	GR	E	78.434 67	−0.2	5333
3334	Q (2, −2 ; 22)	GR	← (2, −1 ; 22)	GR	E	78.438 59	7.1	7100
* 3335	Q (1, −1 ; 15)	GR	← (1, 0 ; 15)	GR	E	78.438 59	−0.8	7100
3336	Q (2, −2 ; 21)	GR	← (2, −1 ; 21)	GR	E	78.445 27	7.0	9738
* 3337	Q (2, −2 ; 20)	GR	← (2, −1 ; 20)	GR	E	78.450 55	0.0	5184
* 3338	Q (1, −1 ; 16)	GR	← (1, 0 ; 16)	GR	E	78.454 55	−0.1	9283
* 3339	Q (2, −2 ; 19)	GR	← (2, −1 ; 19)	GR	E	78.455 62	−2.1	3951
* 3340	Q (2, −2 ; 18)	GR	← (2, −1 ; 18)	GR	E	78.460 56	−1.1	5017
* 3341	Q (2, −2 ; 17)	GR	← (2, −1 ; 17)	GR	E	78.465 05	−0.2	5973
* 3342	Q (2, −2 ; 16)	GR	← (2, −1 ; 16)	GR	E	78.468 87	−1.5	5924
3343	Q (2, −2 ; 15)	GR	← (2, −1 ; 15)	GR	E	78.473 29	8.6	9661
* 3344	Q (1, −1 ; 17)	GR	← (1, 0 ; 17)	GR	E	78.473 29	−1.0	9661
* 3345	Q (2, −2 ; 14)	GR	← (2, −1 ; 14)	GR	E	78.475 55	1.0	6404
* 3346	Q (2, −2 ; 13)	GR	← (2, −1 ; 13)	GR	E	78.478 23	0.7	5953
* 3347	Q (2, −2 ; 12)	GR	← (2, −1 ; 12)	GR	E	78.480 57	0.2	6471
* 3348	Q (2, −2 ; 11)	GR	← (2, −1 ; 11)	GR	E	78.482 58	−0.2	6321
* 3349	Q (2, −2 ; 10)	GR	← (2, −1 ; 10)	GR	E	78.484 44	0.2	6610
* 3350	Q (2, −2 ; 9)	GR	← (2, −1 ; 9)	GR	E	78.486 25	1.5	6303
3351	Q (2, −2 ; 8)	GR	← (2, −1 ; 8)	GR	E	78.487 95	7.6	6661
3352	Q (2, −2 ; 7)	GR	← (2, −1 ; 7)	GR	E	78.487 95	−5.2	6661
* 3353	Q (2, −2 ; 6)	GR	← (2, −1 ; 6)	GR	E	78.489 72	2.6	6955
3354	Q (2, −2 ; 5)	GR	← (2, −1 ; 5)	GR	E	78.489 72	−4.9	6955
* 3355	Q (2, −2 ; 4)	GR	← (2, −1 ; 4)	GR	E	78.491 04	3.0	6772
* 3356	Q (2, −2 ; 3)	GR	← (2, −1 ; 3)	GR	E	78.491 04	−2.3	6772
3357	Q (2, −2 ; 2)	GR	← (2, −1 ; 2)	GR	E	78.491 04	−7.0	6772
* 3358	Q (1, −1 ; 18)	GR	← (1, 0 ; 18)	GR	E	78.495 36	0.4	9295
* 3359	R (1, 2 ; 2)	GR	← (1, 1 ; 1)	GR	E	78.516 67	−0.1	8946
* 3360	Q (1, −1 ; 19)	GR	← (1, 0 ; 19)	GR	E	78.520 84	−0.4	9440
* 3361	Q (1, −1 ; 20)	GR	← (1, 0 ; 20)	GR	E	78.550 21	0.3	9172
* 3362	R (0, 6 ; 31)	GR	← (0, 5 ; 30)	GR	E	78.562 57	0.9	6162
* 3363	Q (1, −1 ; 21)	GR	← (1, 0 ; 21)	GR	E	78.583 88	0.0	9066
* 3364	R (1, 8 ; 27)	GR	← (1, 7 ; 26)	GR	A	78.610 23	0.8	2599
* 3365	Q (1, −1 ; 22)	GR	← (1, 0 ; 22)	GR	E	78.622 27	0.2	9103
* 3366	P (2, 3 ; 26)	GR	← (1, 4 ; 27)	GR	A	78.641 37	−0.2	5746
* 3367	Q (1, −1 ; 23)	GR	← (1, 0 ; 23)	GR	E	78.665 60	−0.9	8474
* 3368	P (2, −1 ; 23)	GR	← (1, −2 ; 24)	GR	E	78.668 70	−0.3	5429
* 3369	Q (1, −1 ; 24)	GR	← (1, 0 ; 24)	GR	E	78.714 55	0.1	8160
* 3370	P (1, 7 ; 21)	GR	← (1, 6 ; 22)	GR	A	78.762 87	−1.4	5805
* 3371	Q (1, −1 ; 25)	GR	← (1, 0 ; 25)	GR	E	78.769 44	−0.5	7941
* 3372	R (1, 3 ; 7)	GR	← (1, 2 ; 6)	GR	A	78.776 58	0.1	5350
* 3373	Q (1, −1 ; 26)	GR	← (1, 0 ; 26)	GR	E	78.830 62	−0.4	7802
* 3374	R (0, −9 ; 14)	GR	← (0, −8 ; 13)	GR	E	78.848 65	−0.8	9845
* 3375	R (0, −8 ; 23)	GR	← (0, −7 ; 22)	GR	E	78.868 41	0.3	8890

Index	upper state T (n, K ; J)	v	←	lower state (n, K ; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 3376	R (0, −5 ; 34)	GR	← (0, −4 ; 33)	GR	E	78.883 67	−0.7	4869
* 3377	R (0, 10 ; 11)	GR	← (0, 9 ; 10)	GR	A	78.891 05	−1.0	9770
* 3378	Q (1, −1 ; 27)	GR	← (1, 0 ; 27)	GR	E	78.898 65	0.6	7394
* 3379	Q (1, −1 ; 28)	GR	← (1, 0 ; 28)	GR	E	78.973 74	−0.2	6648
3380	R (0, 3 ; 37)	GR	← (0, 2 ; 36)	GR	E	79.033 65	−1.5	2283
* 3381	Q (1, −1 ; 29)	GR	← (1, 0 ; 29)	GR	E	79.056 02	−1.0	6176
* 3382	P (1, −5 ; 11)	GR	← (1, −4 ; 12)	GR	E	79.136 67	−0.7	3908
* 3383	Q (1, −1 ; 30)	GR	← (1, 0 ; 30)	GR	E	79.143 90	−0.7	5399
* 3384	R (0, 5 ; 25)	GR	← (0, 4 $^+$; 24)	GR	A	79.216 51	0.0	9201
* 3385	R (0, 5 ; 25)	GR	← (0, 4 $^-$; 24)	GR	A	79.225 01	0.7	8850
* 3386	P (1, −8 ; 16)	GR	← (1, −7 ; 17)	GR	E	79.298 77	−0.4	4041
* 3387	R (0, 5 ; 33)	GR	← (0, 4 ; 32)	GR	E	79.338 88	1.0	5068
* 3388	R (1, 5 ; 21)	GR	← (1, 4 ; 20)	GR	E	79.427 80	0.6	7502
* 3389	R (0, 7 ; 19)	GR	← (0, 6 ; 18)	GR	E	79.433 81	−1.4	9750
* 3390	R (0, 7 ; 28)	GR	← (0, 6 ; 27)	GR	A	79.499 74	0.0	8731
* 3391	R (0, 10 ; 12)	GR	← (0, 9 ; 11)	GR	E	79.513 87	−1.1	9706
* 3392	P (1, 9 ; 26)	GR	← (0, 10 ; 27)	GR	A	79.553 34	−0.6	2825
* 3393	R (1, 6 ; 31)	GR	← (1, 5 ; 30)	GR	A	79.578 24	0.1	7021
* 3394	R (0, −7 ; 19)	GR	← (0, −6 ; 18)	GR	E	79.580 57	−1.4	9637
* 3395	R (0, 6 ; 26)	GR	← (0, 5 ; 25)	GR	A	79.634 94	0.1	9391
* 3396	R (1, −4 ; 14)	GR	← (1, −3 ; 13)	GR	E	79.644 66	−0.2	9277
* 3397	P (2, −5 ; 10)	GR	← (1, −6 ; 11)	GR	E	79.654 07	1.9	7911
* 3398	R (1, 4 ; 13)	GR	← (1, 3 ; 12)	GR	A	79.657 62	−1.3	7626
* 3399	R (0, 4 ; 30)	GR	← (0, ; 29)	GR	E	79.713 45	0.5	6917
* 3400	R (0, 9 ; 18)	GR	← (0, 8 ; 17)	GR	E	79.799 67	−0.3	9565
* 3401	P (1, 6 ; 20)	GR	← (1, 5 ; 21)	GR	E	79.803 28	−1.1	473
* 3402	R (0, −6 ; 22)	GR	← (0, −5 ; 21)	GR	E	79.863 79	0.0	9412
* 3403	R (1, −1 ; 1)	GR	← (1, 0 ; 0)	GR	E	79.944 38	−0.3	6029
* 3404	R (0, 8 ; 17)	GR	← (0, 7 ; 16)	GR	A	79.997 60	−0.6	5194
* 3405	R (0, 8 ; 13)	GR	← (0, 7 ; 12)	GR	E	80.002 78	0.1	6011
* 3406	R (1, 2 ; 3)	GR	← (1, 1 ; 2)	GR	E	80.087 03	0.2	8865
* 3407	R (0, 6 ; 32)	GR	← (0, 5 ; 31)	GR	E	80.133 36	1.7	5887
* 3408	P (2, −1 ; 22)	GR	← (1, −2 ; 23)	GR	E	80.201 59	0.0	6112
* 3409	P (1, 7 ; 20)	GR	← (1, 6 ; 21)	GR	A	80.209 21	0.3	5707
* 3410	Q (0, 11 ; 24)	GR	← (0, 10 ; 24)	GR	E	80.218 40	2.0	9318
* 3411	Q (0, 11 ; 23)	GR	← (0, 10 ; 23)	GR	E	80.218 40	0.2	9318
* 3412	Q (0, 11 ; 25)	GR	← (0, 10 ; 25)	GR	E	80.218 40	−1.0	9318
3413	Q (0, 11 ; 22)	GR	← (0, 10 ; 22)	GR	E	80.218 40	−4.1	9318
* 3414	Q (0, 11 ; 26)	GR	← (0, 10 ; 26)	GR	E	80.219 46	−1.6	9404
* 3415	Q (0, 11 ; 21)	GR	← (0, 10 ; 21)	GR	E	80.219 46	−2.3	9404
* 3416	Q (0, 11 ; 20)	GR	← (0, 10 ; 20)	GR	E	80.221 35	0.6	8666
* 3417	Q (0, 11 ; 27)	GR	← (0, 10 ; 27)	GR	E	80.221 35	−0.4	8666
* 3418	Q (0, 11 ; 19)	GR	← (0, 10 ; 19)	GR	E	80.223 36	1.2	9098
3419	Q (0, 11 ; 28)	GR	← (0, 10 ; 28)	GR	E	80.223 36	−4.3	9098
* 3420	Q (0, 11 ; 18)	GR	← (0, 10 ; 18)	GR	E	80.225 16	−0.1	8090
* 3421	Q (0, 11 ; 29)	GR	← (0, 10 ; 29)	GR	E	80.227 32	0.2	8762
* 3422	Q (0, 11 ; 17)	GR	← (0, 10 ; 17)	GR	E	80.227 32	0.2	8762
* 3423	Q (0, 11 ; 16)	GR	← (0, 10 ; 16)	GR	E	80.229 69	−0.5	7938
* 3424	Q (0, 11 ; 30)	GR	← (0, 10 ; 30)	GR	E	80.232 03	1.3	8719
* 3425	Q (0, 11 ; 15)	GR	← (0, 10 ; 15)	GR	E	80.232 03	−1.1	8719
* 3426	Q (0, 11 ; 14)	GR	← (0, 10 ; 14)	GR	E	80.234 61	−0.5	7432
* 3427	Q (0, 11 ; 13)	GR	← (0, 10 ; 13)	GR	E	80.237 08	0.9	7920
* 3428	Q (0, 11 ; 31)	GR	← (0, 10 ; 31)	GR	E	80.237 08	0.1	7920
* 3429	Q (0, 11 ; 12)	GR	← (0, 10 ; 12)	GR	E	80.239 58	0.5	6537
* 3430	Q (0, 11 ; 11)	GR	← (0, 10 ; 11)	GR	E	80.242 01	−0.2	5363
* 3431	Q (0, 11 ; 32)	GR	← (0, 10 ; 32)	GR	E	80.243 76	1.4	3303
* 3432	Q (0, 11 ; 33)	GR	← (0, 10 ; 33)	GR	E	80.251 32	−0.5	2840
* 3433	Q (0, 11 ; 34)	GR	← (0, 10 ; 34)	GR	E	80.260 58	0.8	2908
3434	R (1, 3 ; 8)	GR	← (1, 2 $^-$; 7)	GR	A	80.346 02	−6.0	0
* 3435	R (1, 3 ; 8)	GR	← (1, 2 ; 7)	GR	A	80.347 18	2.4	4598
* 3436	R (1, 3 ; 8)	GR	← (1, 2 $^+$; 7)	GR	A	80.347 16	−0.8	5016
3437	P (2, 3 ; 25)	GR	← (1, 4 ; 26)	GR	A	80.413 97	5.1	5095
* 3438	R (0, −9 ; 15)	GR	← (0, −8 ; 14)	GR	E	80.413 97	−1.3	6541
* 3439	R (0, −8 ; 24)	GR	← (0, −7 ; 23)	GR	E	80.417 47	0.7	8378
* 3440	R (0, 10 ; 12)	GR	← (0, 9 ; 11)	GR	A	80.456 08	−0.2	4730
* 3441	R (0, −5 ; 35)	GR	← (0, −4 ; 34)	GR	E	80.483 81	1.9	5424
* 3442	P (1, −5 ; 10)	GR	← (1, −4 ; 11)	GR	E	80.704 36	0.2	4396
* 3443	R (0, 5 ; 26)	GR	← (0, 4 $^+$; 25)	GR	A	80.740 95	−0.3	8655
* 3444	R (0, 5 ; 26)	GR	← (0, 4 $^-$; 25)	GR	A	80.752 65	0.5	8807
* 3445	P (1, −8 ; 15)	GR	← (1, −7 ; 16)	GR	E	80.839 94	0.9	3948
* 3446	R (0, 5 ; 34)	GR	← (0, 4 ; 33)	GR	E	80.845 44	0.5	5382
* 3447	R (0, 7 ; 20)	GR	← (0, 6 ; 19)	GR	E	80.999 48	0.5	9514
* 3448	R (0, 7 ; 29)	GR	← (0, 6 ; 28)	GR	A	81.051 82	−0.7	8525
* 3449	R (0, 10 ; 13)	GR	← (0, 9 ; 12)	GR	E	81.078 40	0.2	9656
* 3450	R (1, 5 ; 22)	GR	← (1, 4 ; 21)	GR	E	81.119 82	−0.3	6874

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Index	upper state T (n, K ; J)	v	←	lower state (n, K ; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 3451	R (0, 4 ; 31)	GR	←	(0, 3 ; 30)	GR	E	81.128 48	−0.1	6418
* 3452	R (0, −7 ; 20)	GR	←	(0, −6 ; 19)	GR	E	81.136 59	−0.6	9724
* 3453	R (0, 6 ; 27)	GR	←	(0, 5 ; 26)	GR	A	81.167 42	−0.1	9095
* 3454	P (1, 9 ; 25)	GR	←	(0, 10 ; 26)	GR	A	81.201 63	0.5	2991
* 3455	R (1, −4 ; 15)	GR	←	(1, −3 ; 14)	GR	E	81.226 23	0.1	9477
* 3456	P (2, −5 ; 9)	GR	←	(1, −6 ; 10)	GR	E	81.233 75	−0.2	6860
* 3457	R (1, 4 ; 14)	GR	←	(1, 3 ; 13)	GR	A	81.249 56	−0.9	7656
* 3458	R (0, 9 ; 19)	GR	←	(0, 8 ; 18)	GR	E	81.354 48	−0.7	9418
* 3459	R (0, −6 ; 23)	GR	←	(0, −5 ; 22)	GR	E	81.420 56	0.1	9233
* 3460	R (1, −1 ; 2)	GR	←	(1, 0 ; 1)	GR	E	81.515 17	−0.2	7162
* 3461	P (1, 6 ; 19)	GR	←	(1, 5 ; 20)	GR	E	81.520 47	0.1	4391
* 3462	R (0, 8 ; 18)	GR	←	(0, 7 ; 17)	GR	A	81.563 88	−0.4	5260
* 3463	R (0, 8 ; 14)	GR	←	(0, 7 ; 13)	GR	E	81.569 96	−0.4	8014
* 3464	R (2, −2 ; 2)	GR	←	(2, −1 ; 1)	GR	E	81.629 53	0.5	4041
* 3465	R (1, 2 ; 4)	GR	←	(1, 1 ; 3)	GR	E	81.657 35	0.2	9104
* 3466	P (1, 7 ; 19)	GR	←	(1, 6 ; 20)	GR	A	81.669 78	0.7	6374
* 3467	R (0, 6 ; 33)	GR	←	(0, 5 ; 32)	GR	E	81.705 26	0.1	5177
* 3468	P (2, −1 ; 21)	GR	←	(1, −2 ; 22)	GR	E	81.741 30	0.4	6991
* 3469	R (1, 3 ; 9)	GR	←	(1, 2 $^-$; 8)	GR	A	81.916 98	−1.3	0
* 3470	R (1, 3 ; 9)	GR	←	(1, 2 ; 8)	GR	A	81.917 34	−2.6	9823
* 3471	R (1, 3 ; 9)	GR	←	(1, 2 $^+$; 8)	GR	A	81.918 33	0.0	5249
* 3472	R (0, −8 ; 25)	GR	←	(0, −7 ; 24)	GR	E	81.964 69	−0.5	8176
* 3473	R (0, −9 ; 16)	GR	←	(0, −8 ; 15)	GR	E	81.979 01	0.0	6869
* 3474	R (0, 10 ; 13)	GR	←	(0, 9 ; 12)	GR	A	82.019 89	−0.2	5198
* 3475	R (0, −5 ; 36)	GR	←	(0, −4 ; 35)	GR	E	82.086 48	−0.1	4648
* 3476	R (0, 9 ; 9)	GR	←	(0, 8 ; 8)	GR	A	82.092 67	0.0	9745
* 3477	P (2, 3 ; 24)	GR	←	(1, 4 ; 25)	GR	A	82.171 60	−0.3	6446
* 3478	R (0, 5 ; 27)	GR	←	(0, 4 $^+$; 26)	GR	A	82.259 48	−0.6	8463
* 3479	P (1, −5 ; 9)	GR	←	(1, −4 ; 10)	GR	E	82.272 67	0.2	4409
* 3480	R (0, 5 ; 27)	GR	←	(0, 4 $^-$; 26)	GR	A	82.275 22	0.8	8485
* 3481	R (0, 5 ; 35)	GR	←	(0, 4 ; 34)	GR	E	82.347 25	−1.0	4271
* 3482	R (0, 11 ; 11)	GR	←	(0, 10 ; 10)	GR	A	82.378 73	−0.4	9660
* 3483	P (1, −8 ; 14)	GR	←	(1, −7 ; 15)	GR	E	82.386 25	−0.2	4026
* 3484	R (0, 4 ; 32)	GR	←	(0, 3 ; 31)	GR	E	82.530 37	0.6	6296
* 3485	R (0, 7 ; 21)	GR	←	(0, 6 ; 20)	GR	E	82.564 54	0.4	9355
* 3486	R (0, 7 ; 30)	GR	←	(0, 6 ; 29)	GR	A	82.603 11	−0.8	8282
* 3487	R (0, 10 ; 14)	GR	←	(0, 9 ; 13)	GR	E	82.642 04	−0.1	9687
* 3488	R (0, −7 ; 21)	GR	←	(0, −6 ; 20)	GR	E	82.690 31	0.1	9697
* 3489	R (0, 6 ; 28)	GR	←	(0, 5 ; 27)	GR	A	82.695 88	0.2	9366
* 3490	R (1, −4 ; 16)	GR	←	(1, −3 ; 15)	GR	E	82.810 83	1.3	9574
* 3491	P (2, −5 ; 8)	GR	←	(1, −6 ; 9)	GR	E	82.813 21	−0.7	7505
* 3492	Q (0, 12 ; 32)	GR	←	(0, 11 ; 32)	GR	E	82.821 29	0.4	3134
* 3493	R (1, 5 ; 23)	GR	←	(1, 4 ; 22)	GR	E	82.826 67	1.0	6408
3494	P (1, 9 ; 24)	GR	←	(0, 10 ; 25)	GR	A	82.847 11	8.9	7421
* 3495	R (1, 4 ; 15)	GR	←	(1, 3 ; 14)	GR	A	82.847 11	−0.8	7421
* 3496	Q (0, 12 ; 31)	GR	←	(0, 11 ; 31)	GR	E	82.852 63	−0.6	3376
* 3497	Q (0, 12 ; 30)	GR	←	(0, 11 ; 30)	GR	E	82.881 08	0.0	3014
3498	Q (0, 12 ; 29)	GR	←	(0, 11 ; 29)	GR	E	82.907 43	3.4	9411
* 3499	R (0, 9 ; 20)	GR	←	(0, 8 ; 19)	GR	E	82.907 43	−0.2	9411
* 3500	Q (0, 12 ; 28)	GR	←	(0, 11 ; 28)	GR	E	82.930 90	0.1	3854
* 3501	Q (0, 12 ; 27)	GR	←	(0, 11 ; 27)	GR	E	82.952 50	0.3	4081
* 3502	Q (0, 12 ; 26)	GR	←	(0, 11 ; 26)	GR	E	82.972 19	−0.4	4671
* 3503	R (0, −6 ; 24)	GR	←	(0, −5 ; 23)	GR	E	82.975 49	0.2	9069
* 3504	Q (0, 12 ; 25)	GR	←	(0, 11 ; 25)	GR	E	82.990 10	−1.8	4777
* 3505	Q (0, 12 ; 24)	GR	←	(0, 11 ; 24)	GR	E	83.006 44	0.7	4862
* 3506	Q (0, 12 ; 23)	GR	←	(0, 11 ; 23)	GR	E	83.021 27	0.6	5296
* 3507	Q (0, 12 ; 22)	GR	←	(0, 11 ; 22)	GR	E	83.034 69	0.9	5850
* 3508	Q (0, 12 ; 21)	GR	←	(0, 11 ; 21)	GR	E	83.046 88	−0.2	5899
* 3509	Q (0, 12 ; 20)	GR	←	(0, 11 ; 20)	GR	E	83.057 87	−1.1	5976
* 3510	Q (0, 12 ; 19)	GR	←	(0, 11 ; 19)	GR	E	83.067 85	0.0	6345
* 3511	Q (0, 12 ; 18)	GR	←	(0, 11 ; 18)	GR	E	83.076 76	0.1	6412
* 3512	Q (0, 12 ; 17)	GR	←	(0, 11 ; 17)	GR	E	83.085 06	0.6	6924
* 3513	R (1, −1 ; 3)	GR	←	(1, 0 ; 2)	GR	E	83.086 06	−0.1	7191
* 3514	Q (0, 12 ; 16)	GR	←	(0, 11 ; 16)	GR	E	83.091 93	0.5	6292
* 3515	Q (0, 12 ; 15)	GR	←	(0, 11 ; 15)	GR	E	83.098 41	−0.4	6216
* 3516	Q (0, 12 ; 14)	GR	←	(0, 11 ; 14)	GR	E	83.103 98	0.4	5669
* 3517	Q (0, 12 ; 13)	GR	←	(0, 11 ; 13)	GR	E	83.109 07	−0.5	4758
* 3518	Q (0, 12 ; 12)	GR	←	(0, 11 ; 12)	GR	E	83.113 50	0.0	4427
* 3519	R (0, 8 ; 19)	GR	←	(0, 7 ; 18)	GR	A	83.129 87	0.2	5369
* 3520	R (0, 8 ; 15)	GR	←	(0, 7 ; 14)	GR	E	83.135 99	0.4	9338
* 3521	P (1, 7 ; 18)	GR	←	(1, 6 ; 19)	GR	A	83.143 85	−0.4	6318
* 3522	R (2, −2 ; 3)	GR	←	(2, −1 ; 2)	GR	E	83.197 79	−0.7	4199
* 3523	P (1, 6 ; 18)	GR	←	(1, 5 ; 19)	GR	E	83.218 62	−0.1	4946
* 3524	R (1, 2 ; 5)	GR	←	(1, 1 ; 4)	GR	E	83.227 64	−0.2	9462
* 3525	P (1, 8 ; 28)	GR	←	(0, 9 ; 29)	GR	E	83.278 06	−1.1	5631
* 3526	R (0, 6 ; 34)	GR	←	(0, 5 ; 33)	GR	E	83.278 06	−1.6	5631
* 3527	P (2, −1 ; 20)	GR	←	(1, −2 ; 21)	GR	E	83.287 03	0.2	7114
* 3528	R (1, 3 ; 10)	GR	←	(1, 2 $^-$; 9)	GR	A	83.488 11	−0.1	9887
* 3529	R (1, 3 ; 10)	GR	←	(1, 2 $^+$; 9)	GR	A	83.489 99	0.7	9527
* 3530	R (0, −8 ; 26)	GR	←	(0, −7 ; 25)	GR	E	83.510 04	0.1	8052
* 3531	R (0, −9 ; 17)	GR	←	(0, −8 ; 16)	GR	E	83.543 37	0.3	9696
* 3532	R (0, 10 ; 14)	GR	←	(0, 9 ; 13)	GR	A	83.582 34	−1.1	9766
* 3533	R (0, 9 ; 10)	GR	←	(0, 8 ; 9)	GR	A	83.663 12	0.3	5602
* 3534	R (0, −5 ; 37)	GR	←	(0, −4 ; 36)	GR	E	83.692 47	0.0	3897
* 3535	R (0, 5 ; 28)	GR	←	(0, 4 $^+$; 27)	GR	A	83.771 50	−0.7	7859
* 3536	R (0, 5 ; 28)	GR	←	(0, 4 $^-$; 27)	GR	A	83.792 66	2.3	8034
* 3537	P (1, −5 ; 8)	GR	←	(1, −4 ; 9)	GR	E	83.841 60	1.5	3979
* 3538	R (0, 5 ; 36)	GR	←	(0, 4 ; 35)	GR	E	83.843 92	0.5	4688
* 3539	P (2, 3 ; 23)	GR	←	(1, 4 ; 24)	GR	A	83.916 19	−0.9	7096
* 3540	R (0, 4 ; 33)	GR	←	(0, 3 ; 32)	GR	E	83.918 86	0.6	5509
* 3541	P (1, −8 ; 13)	GR	←	(1, −7 ; 14)	GR	E	83.937 38	0.6	4258
* 3542	R (0, 11 ; 12)	GR	←	(0, 10 ; 11)	GR	A	83.942 19	−0.7	9772
* 3543	R (0, 7 ; 22)	GR	←	(0, 6 ; 21)	GR	E	84.129 03	0.7	9270
* 3544	R (0, 7 ; 31)	GR	←	(0, 6 ; 30)	GR	A	84.153 56	−0.7	7659
* 3545	R (0, 10 ; 15)	GR	←	(0, 9 ; 14)	GR	E	84.204 86	−0.2	9860
* 3546	R (0, 6 ; 29)	GR	←	(0, 5 ; 28)	GR	A	84.220 04	0.1	8929
* 3547	R (0, −7 ; 22)	GR	←	(0, −6 ; 21)	GR	E	84.241 46	0.4	9479
* 3548	P (2, −5 ; 7)	GR	←	(1, −6 ; 8)	GR	E	84.392 02	0.6	7653
* 3549	R (1, −4 ; 17)	GR	←	(1, −3 ; 16)	GR	E	84.398 47	0.7	8993
* 3550	R (1, 4 ; 16)	GR	←	(1, 3 ; 15)	GR	A	84.451 07	0.1	7390
* 3551	R (0, 9 ; 21)	GR	←	(0, 8 ; 20)	GR	E	84.458 40	−1.5	8838
* 3552	P (1, 9 ; 23)	GR	←	(0, 10 ; 24)	GR	A	84.487 21	−0.6	3639
* 3553	R (0, −6 ; 25)	GR	←	(0, −5 ; 24)	GR	E	84.528 46	0.3	9144
* 3554	R (1, 5 ; 24)	GR	←	(1, 4 ; 23)	GR	E	84.548 75	1.3	5546
* 3555	P (1, 7 ; 17)	GR	←	(1, 6 ; 18)	GR	A	84.630 75	−0.1	66 3
* 3556	R (1, −1 ; 4)	GR	←	(1, 0 ; 3)	GR	E	84.657 09	0.3	8302
* 3557	Q (0, 12 ; 21)	GR	←	(0, 11 ; 21)	GR	A	84.676 52	0.8	9599
* 3558	Q (0, 12 ; 22)	GR	←	(0, 11 ; 22)	GR	A	84.676 52	−1.6	0
3559	Q (0, 12 ; 20)	GR	←	(0, 11 ; 20)	GR	A	84.677 62	6.0	9599
* 3560	Q (0, 12 ; 23)	GR	←	(0, 11 ; 23)	GR	A	84.678 12	3.3	9599
* 3561	Q (0, 12 ; 19)	GR	←	(0, 11 ; 19)	GR	A	84.678 12	−2.7	9599
* 3562	Q (0, 12 ; 24)	GR	←	(0, 11 ; 24)	GR	A	84.680 18	2.5	9612
* 3563	Q (0, 12 ; 18)	GR	←	(0, 11 ; 18)	GR	A	84.680 18	−0.3	9612
* 3564	Q (0, 12 ; 17)	GR	←	(0, 11 ; 17)	GR	A	84.682 65	0.9	9708
* 3565	Q (0, 12 ; 25)	GR	←	(0, 11 ; 25)	GR	A	84.682 65	−0.2	9708
* 3566	Q (0, 12 ; 16)	GR	←	(0, 11 ; 16)	GR	A	84.685 22	0.5	8752
* 3567	Q (0, 12 ; 26)	GR	←	(0, 11 ; 26)	GR	A	84.687 61	−0.4	9134
* 3568	Q (0, 12 ; 15)	GR	←	(0, 11 ; 15)	GR	A	84.687 61	−3.6	9134
* 3569	Q (0, 12 ; 27)	GR	←	(0, 11 ; 27)	GR	A	84.691 09	1.5	8193
* 3570	Q (0, 12 ; 14)	GR	←	(0, 11 ; 14)	GR	A	84.691 09	−0.4	8193
* 3571	Q (0, 12 ; 13)	GR	←	(0, 11 ; 13)	GR	A	84.694 70	1.3	4155
* 3572	R (0, 8 ; 20)	GR	←	(0, 7 ; 19)	GR	A	84.695 31	−2.3	2922
* 3573	Q (0, 12 ; 12)	GR	←	(0, 11 ; 12)	GR	A	84.697 74	−2.5	7056
* 3574	Q (0, 12 ; 28)	GR	←	(0, 11 ; 28)	GR	A	84.700 53	0.5	9758
* 3575	R (0, 8 ; 16)	GR	←	(0, 7 ; 15)	GR	E	84.700 53	−1.8	9758
* 3576	Q (0, 12 ; 29)	GR	←	(0, 11 ; 29)	GR	A	84.709 08	0.2	6635
* 3577	Q (0, 12 ; 30)	GR	←	(0, 11 ; 30)	GR	A	84.719 83	0.8	7391
* 3578	Q (0, 12 ; 31)	GR	←	(0, 11 ; 31)	GR	A	84.731 99	−1.0	5914
* 3579	Q (0, 12 ; 32)	GR	←	(0, 11 ; 32)	GR	A	84.747 36	0.0	4641
* 3580	Q (0, 12 ; 33)	GR	←	(0, 11 ; 33)	GR	A	84.764 35	0.2	4246
* 3581	R (2, −2 ; 4)	GR	←	(2, −1 ; 3)	GR	E	84.766 12	1.9	4733
* 3582	Q (0, 12 ; 34)	GR	←	(0, 11 ; 34)	GR	A	84.784 35	0.0	3536
* 3583	R (1, 2 ; 6)	GR	←	(1, 1 ; 5)	GR	E	84.798 03	0.4	9801
3584	P (1, 8 ; 27)	GR	←	(0, 9 ; 28)	GR	E	84.819 89	−4.2	2883
* 3585	P (2, −1 ; 19)	GR	←	(1, −2 ; 20)	GR	E	84.838 34	0.5	7235
* 3586	R (0, 6 ; 35)	GR	←	(0, 5 ; 34)	GR	E	84.853 04	2.1	6731
* 3587	Q (1, 10 ; 21)	GR	←	(1, 9 ; 21)	GR	A	84.881 90	1.3	9331
* 3588	Q (1, 10 ; 20)	GR	←	(1, 9 ; 20)	GR	A	84.881 90	−0.7	9331
3589	Q (1, 10 ; 22)	GR	←	(1, 9 ; 22)	GR	A	84.885 13	5.3	9069
* 3590	Q (1, 10 ; 19)	GR	←	(1, 9 ; 19)	GR	A	84.885 13	−1.7	9069
* 3591	Q (1, 10 ; 18)	GR	←	(1, 9 ; 18)	GR	A	84.891 25	−0.8	9145
* 3592	Q (1, 10 ; 23)	GR	←	(1, 9 ; 23)	GR	A	84.891 25	−1.4	9145
3593	P (1, 6 ; 17)	GR	←	(1, 5 ; 18)	GR	E	84.899 31	4.1	8653
* 3594	Q (1, 10 ; 17)	GR	←	(1, 9 ; 17)	GR	A	84.899 31	−1.9	8653
* 3595	Q (1, 10 ; 24)	GR	←	(1, 9 ; 24)	GR	A	84.902 49	1.2	7031
* 3596	Q (1, 10 ; 16)	GR	←	(1, 9 ; 16)	GR	A	84.909 47	−1.0	8861
* 3597	Q (1, 10 ; 25)	GR	←	(1, 9 ; 25)	GR	A	84.918 19	2.1	6522
* 3598	Q (1, 10 ; 15)	GR	←	(1, 9 ; 15)	GR	A	84.921 32	1.6	8018
* 3599	Q (1, 10 ; 14)	GR	←	(1, 9 ; 14)	GR	A	84.933 88	0.7	7780
* 3600	Q (1, 10 ; 26)	GR	←	(1, 9 ; 26)	GR	A	84.938 65	−0.8	5799



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 3601	Q (1, 10 ; 13) GR	←	(1, 9 ; 13) GR	A	84.947 49	0.7	7577
* 3602	Q (1, 10 ; 12) GR	←	(1, 9 ; 12) GR	A	84.961 54	−0.3	7262
* 3603	Q (1, 10 ; 27) GR	←	(1, 9 ; 27) GR	A	84.964 81	0.1	5444
* 3604	Q (1, 10 ; 11) GR	←	(1, 9 ; 11) GR	A	84.975 88	−1.2	6692
* 3605	Q (1, 10 ; 10) GR	←	(1, 9 ; 10) GR	A	84.990 16	−0.9	5719
* 3606	Q (1, 10 ; 28) GR	←	(1, 9 ; 28) GR	A	84.996 58	−1.6	6384
* 3607	Q (1, 10 ; 29) GR	←	(1, 9 ; 29) GR	A	85.035 50	1.0	4881
* 3608	R (0, −8 ; 27) GR	←	(0, −7 ; 26) GR	E	85.053 51	0.2	7871
* 3609	R (1, 3 ; 11) GR	←	(1, 2 $^-$; 10) GR	A	85.059 51	0.3	9673
* 3610	R (1, 3 ; 11) GR	←	(1, 2 $^+$; 10) GR	A	85.062 16	−0.1	9472
* 3611	Q (1, 10 ; 30) GR	←	(1, 9 ; 30) GR	A	85.080 66	0.4	4324
* 3612	R (0, −9 ; 18) GR	←	(0, −8 ; 17) GR	E	85.107 25	0.0	9718
* 3613	Q (1, 10 ; 31) GR	←	(1, 9 ; 31) GR	A	85.133 47	0.5	3728
* 3614	R (0, 10 ; 15) GR	←	(0, 9 ; 14) GR	A	85.143 53	−0.9	5117
* 3615	Q (0, 14 ; 27) GR	←	(0, 13 ; 27) GR	A	85.186 66	0.4	3583
* 3616	Q (1, 10 ; 32) GR	←	(1, 9 ; 32) GR	A	85.193 85	0.4	3377
* 3617	Q (0, 14 ; 26) GR	←	(0, 13 ; 26) GR	A	85.226 09	0.1	4866
* 3618	R (0, 9 ; 11) GR	←	(0, 8 ; 10) GR	A	85.232 96	−0.1	9866
* 3619	Q (1, 10 ; 33) GR	←	(1, 9 ; 33) GR	A	85.262 54	0.3	3261
* 3620	Q (0, 14 ; 25) GR	←	(0, 13 ; 25) GR	A	85.264 19	0.6	4185
* 3621	R (0, 5 ; 29) GR	←	(0, 4 $^+$; 28) GR	A	85.276 51	−2.0	7563
* 3622	R (0, 4 ; 34) GR	←	(0, 3 ; 33) GR	E	85.294 39	1.3	4945
* 3623	Q (0, 14 ; 24) GR	←	(0, 13 ; 24) GR	A	85.298 79	0.6	4854
* 3624	R (0, 5 ; 29) GR	←	(0, 4 $^-$; 28) GR	A	85.304 61	2.0	7984
* 3625	Q (0, 14 ; 23) GR	←	(0, 13 ; 23) GR	A	85.330 42	1.4	5034
* 3626	R (0, 5 ; 37) GR	←	(0, 4 ; 36) GR	E	85.334 94	−0.2	3556
* 3627	Q (1, 10 ; 34) GR	←	(1, 9 ; 34) GR	A	85.340 05	−1.5	4899
* 3628	Q (0, 14 ; 22) GR	←	(0, 13 ; 22) GR	A	85.359 13	0.5	5018
* 3629	Q (0, 14 ; 21) GR	←	(0, 13 ; 21) GR	A	85.385 16	0.3	5421
* 3630	Q (0, 14 ; 20) GR	←	(0, 13 ; 20) GR	A	85.408 79	0.1	5328
* 3631	P (1, −5 ; 7) GR	←	(1, −4 ; 8) GR	E	85.410 68	0.6	3401
* 3632	Q (1, 10 ; 35) GR	←	(1, 9 ; 35) GR	A	85.427 02	1.1	3239
* 3633	Q (0, 14 ; 19) GR	←	(0, 13 ; 19) GR	A	85.430 14	−0.2	5494
* 3634	Q (0, 14 ; 18) GR	←	(0, 13 ; 18) GR	A	85.449 53	0.5	6498
* 3635	Q (0, 14 ; 17) GR	←	(0, 13 ; 17) GR	A	85.466 67	0.3	5375
* 3636	Q (0, 14 ; 16) GR	←	(0, 13 ; 16) GR	A	85.482 11	−0.4	5111
* 3637	P (1, −8 ; 12) GR	←	(1, −7 ; 13) GR	E	85.492 46	−0.8	3685
* 3638	Q (0, 14 ; 15) GR	←	(0, 13 ; 15) GR	A	85.495 99	−0.4	5064
* 3639	R (0, 11 ; 13) GR	←	(0, 10 ; 12) GR	A	85.504 56	1.0	7038
* 3640	Q (0, 14 ; 14) GR	←	(0, 13 ; 14) GR	A	85.508 29	1.3	3812
* 3641	P (2, 3 ; 22) GR	←	(1, 4 ; 23) GR	A	85.647 06	0.4	8014
* 3642	R (0, 7 ; 23) GR	←	(0, 6 ; 22) GR	E	85.693 00	1.0	9572
* 3643	R (0, 7 ; 32) GR	←	(0, 6 ; 31) GR	A	85.703 31	0.0	4018
* 3644	R (0, 6 ; 30) GR	←	(0, 5 ; 29) GR	A	85.739 66	−0.4	8974
* 3645	R (0, 10 ; 16) GR	←	(0, 9 ; 15) GR	E	85.766 83	0.0	9460
* 3646	R (0, −7 ; 23) GR	←	(0, −6 ; 22) GR	E	85.789 95	0.1	8901
* 3647	P (2, −5 ; 6) GR	←	(1, −6 ; 7) GR	E	85.970 05	−0.7	7494
* 3648	R (1, −4 ; 18) GR	←	(1, −3 ; 17) GR	E	85.990 17	−0.6	9289
* 3649	R (0, 9 ; 22) GR	←	(0, 8 ; 21) GR	E	86.007 36	−0.4	9108
* 3650	R (1, 4 ; 17) GR	←	(1, 3 ; 16) GR	A	86.061 88	−0.3	7205
* 3651	R (0, −6 ; 26) GR	←	(0, −5 ; 25) GR	E	86.079 34	0.5	8570
* 3652	P (1, 9 ; 22) GR	←	(0, 10 ; 23) GR	A	86.124 72	−0.6	3842
* 3653	P (1, 7 ; 16) GR	←	(1, 6 ; 17) GR	A	86.129 57	−0.4	6538
* 3654	Q (1, 10 ; 13) GR	←	(1, 8 ; 13) GR	A	86.208 49	−0.6	2382
* 3655	Q (1, 10 ; 14) GR	←	(1, 8 ; 14) GR	A	86.221 91	0.1	2995
* 3656	R (1, −1 ; 5) GR	←	(1, 0 ; 4) GR	E	86.228 23	0.7	8560
* 3657	Q (1, 10 ; 15) GR	←	(1, 8 ; 15) GR	A	86.236 82	0.9	3012
* 3658	Q (1, 10 ; 16) GR	←	(1, 8 ; 16) GR	A	86.253 35	1.3	3245
* 3659	R (0, 8 ; 21) GR	←	(0, 7 ; 20) GR	A	86.261 45	3.1	4229
* 3660	R (0, 8 ; 17) GR	←	(0, 7 ; 16) GR	E	86.264 11	−0.3	9661
* 3661	Q (1, 10 ; 17) GR	←	(1, 8 ; 17) GR	A	86.271 67	1.2	3271
* 3662	R (1, 5 ; 25) GR	←	(1, 4 ; 24) GR	E	86.286 56	−0.1	5574
* 3663	Q (1, 10 ; 18) GR	←	(1, 8 ; 18) GR	A	86.292 00	0.4	3182
* 3664	Q (1, 10 ; 19) GR	←	(1, 8 ; 19) GR	A	86.314 74	1.3	3242
* 3665	R (2, −2 ; 5) GR	←	(2, −1 ; 4) GR	E	86.334 10	1.6	5357
* 3666	Q (1, 10 ; 20) GR	←	(1, 8 ; 20) GR	A	86.339 55	−3.0	3172
* 3667	Q (1, 10 ; 21) GR	←	(1, 8 ; 21) GR	A	86.367 63	−0.4	3035
* 3668	P (1, 8 ; 26) GR	←	(0, 9 ; 27) GR	E	86.368 43	1.3	9645
* 3669	R (1, 2 ; 7) GR	←	(1, 1 ; 6) GR	E	86.368 43	−0.2	9645
* 3670	P (2, −1 ; 18) GR	←	(1, −2 ; 19) GR	E	86.394 67	0.0	7791
* 3671	Q (1, 10 ; 22) GR	←	(1, 8 ; 22) GR	A	86.398 63	−0.2	3489
* 3672	R (0, 6 ; 36) GR	←	(0, 5 ; 35) GR	E	86.428 43	−0.5	5225
* 3673	Q (1, 10 ; 23) GR	←	(1, 8 ; 23) GR	A	86.433 15	2.5	3176
* 3674	Q (1, 10 ; 24) GR	←	(1, 8 ; 24) GR	A	86.470 77	0.7	3124
3675	Q (1, 10 ; 25) GR	←	(1, 8 ; 25) GR	A	86.511 90	−5.9	3459
* 3676	Q (1, 10 ; 26) GR	←	(1, 8 ; 26) GR	A	86.558 47	−0.7	2897
* 3677	P (1, 6 ; 16) GR	←	(1, 5 ; 17) GR	E	86.562 26	−0.1	5168
* 3678	R (0, −8 ; 28) GR	←	(0, −7 ; 27) GR	E	86.594 94	−0.1	7910
* 3679	Q (1, 10 ; 27) GR	←	(1, 8 ; 27) GR	A	86.609 16	−0.6	2866
* 3680	R (1, 3 ; 12) GR	←	(1, 2 $^-$; 11) GR	A	86.631 60	1.0	9749
* 3681	R (1, 3 ; 12) GR	←	(1, 2 $^+$; 11) GR	A	86.635 39	−0.5	9558
* 3682	R (0, 4 ; 35) GR	←	(0, 3 ; 34) GR	E	86.656 92	0.6	4518
3683	Q (1, 10 ; 28) GR	←	(1, 8 ; 28) GR	A	86.665 21	4.5	3008
* 3684	R (0, −9 ; 19) GR	←	(0, −8 ; 18) GR	E	86.670 50	−2.2	9670
* 3685	R (0, 10 ; 16) GR	←	(0, 9 ; 15) GR	A	86.703 22	−0.4	5024
* 3686	Q (1, 10 ; 29) GR	←	(1, 8 ; 29) GR	A	86.725 48	−0.7	2546
* 3687	R (0, 5 ; 30) GR	←	(0, 4 $^+$; 29) GR	A	86.774 09	−2.5	7280
* 3688	R (0, 9 ; 12) GR	←	(0, 8 ; 11) GR	A	86.802 01	−0.2	5331
* 3689	R (0, 5 ; 30) GR	←	(0, 4 $^-$; 29) GR	A	86.810 88	2.9	7391
* 3690	R (0, 5 ; 38) GR	←	(0, 4 ; 37) GR	E	86.820 63	1.6	3059
* 3691	P (1, −5 ; 6) GR	←	(1, −4 ; 7) GR	E	86.980 17	−0.4	2777
* 3692	P (1, −8 ; 11) GR	←	(1, −7 ; 12) GR	E	87.051 18	−0.4	3405
* 3693	R (0, 11 ; 14) GR	←	(0, 10 ; 13) GR	A	87.065 73	−0.4	9900
* 3694	R (0, 7 ; 33) GR	←	(0, 6 ; 32) GR	A	87.252 15	−0.1	7303
* 3695	R (0, 6 ; 31) GR	←	(0, 5 ; 30) GR	A	87.254 46	−1.0	8789
* 3696	R (0, 7 ; 24) GR	←	(0, 6 ; 23) GR	E	87.256 40	0.5	9306
* 3697	R (0, 10 ; 17) GR	←	(0, 9 ; 16) GR	E	87.327 99	0.8	9665
* 3698	R (0, −7 ; 24) GR	←	(0, −6 ; 23) GR	E	87.335 48	0.1	8846
* 3699	P (2, 3 ; 21) GR	←	(1, 4 ; 22) GR	A	87.364 40	0.2	7996
* 3700	P (2, 3 ; 28) GR	←	(1, 6 ; 29) GR	A	87.523 23	1.1	2014
* 3701	P (2, −5 ; 5) GR	←	(1, −6 ; 6) GR	E	87.547 23	0.9	7723
* 3702	R (0, 9 ; 23) GR	←	(0, 8 ; 22) GR	E	87.554 21	−0.4	8761
* 3703	R (1, −4 ; 19) GR	←	(1, −3 ; 18) GR	E	87.586 12	0.6	8640
* 3704	R (0, −6 ; 27) GR	←	(0, −5 ; 26) GR	E	87.628 02	0.7	8359
* 3705	P (1, 7 ; 15) GR	←	(1, 6 ; 16) GR	A	87.639 54	0.6	6755
* 3706	R (1, 4 ; 18) GR	←	(1, 3 ; 17) GR	A	87.680 36	−0.4	7151
3707	P (1, 9 ; 21) GR	←	(0, 10 ; 22) GR	A	87.759 42	6.7	9815
* 3708	R (1, −1 ; 6) GR	←	(1, 0 ; 5) GR	E	87.799 59	0.2	9169
* 3709	R (0, 8 ; 18) GR	←	(0, 7 ; 17) GR	E	87.826 14	1.5	8926
* 3710	R (0, 8 ; 22) GR	←	(0, 7 ; 21) GR	A	87.826 15	−2.5	5282
* 3711	R (2, −2 ; 6) GR	←	(2, −1 ; 5) GR	E	87.901 48	−0.3	5388
* 3712	P (1, 8 ; 25) GR	←	(0, 9 ; 26) GR	E	87.922 16	−1.0	2566
* 3713	R (1, 2 ; 8) GR	←	(1, 1 ; 7) GR	E	87.939 15	0.6	9461
* 3714	P (2, −1 ; 17) GR	←	(1, −2 ; 18) GR	E	87.955 32	−0.2	8072
* 3715	R (0, 6 ; 37) GR	←	(0, 5 ; 36) GR	E	88.006 91	−0.6	4496
* 3716	R (0, 4 ; 36) GR	←	(0 3 ; 35) GR	E	88.006 91	−3.3	4496
* 3717	R (1, 5 ; 26) GR	←	(1, 4 ; 25) GR	E	88.040 36	0.5	5343
* 3718	R (0, −8 ; 29) GR	←	(0, −7 ; 28) GR	E	88.134 37	0.3	6851
* 3719	R (1, 3 ; 13) GR	←	(1, 2 $^-$; 12) GR	A	88.204 46	0.7	9621
* 3720	R (1, 3 ; 13) GR	←	(1, 2 $^+$; 12) GR	A	88.209 62	−1.7	5733
* 3721	P (1, 6 ; 15) GR	←	(1, 5 ; 16) GR	E	88.209 85	−3.0	5012
* 3722	R (0, −9 ; 20) GR	←	(0, −8 ; 19) GR	E	88.233 75	−0.7	9529
* 3723	R (0, 10 ; 17) GR	←	(0, 9 ; 16) GR	A	88.261 64	0.5	5926
3724	R (0, 5 ; 31) GR	←	(0, 4 $^+$; 30) GR	A	88.263 44	−6.7	7386
* 3725	R (0, 5 ; 39) GR	←	(0, 4 ; 38) GR	E	88.300 44	−0.4	3404
* 3726	R (0, 5 ; 31) GR	←	(0, 4 $^-$; 30) GR	A	88.311 22	2.7	6896
* 3727	R (0, 9 ; 13) GR	←	(0, 8 ; 12) GR	A	88.370 31	−0.5	5276
* 3728	P (1, −5 ; 5) GR	←	(1, −4 ; 6) GR	E	88.550 29	1.7	3017
* 3729	P (1, −8 ; 10) GR	←	(1, −7 ; 11) GR	E	88.613 04	1.2	3359
* 3730	R (0, 11 ; 15) GR	←	(0, 10 ; 14) GR	A	88.625 75	−1.0	9826
* 3731	R (0, 6 ; 32) GR	←	(0, 5 ; 31) GR	A	88.764 34	−0.2	7337
* 3732	R (0, 7 ; 34) GR	←	(0, 6 ; 33) GR	A	88.800 22	0.0	6525
* 3733	R (0, 7 ; 25) GR	←	(0, 6 ; 24) GR	E	88.819 25	−0.1	9064
* 3734	R (0, −7 ; 25) GR	←	(0, −6 ; 24) GR	E	88.877 94	0.5	9252
* 3735	P (2, 3 ; 27) GR	←	(1, 6 ; 28) GR	A	88.885 69	0.9	3924
* 3736	R (0, 10 ; 18) GR	←	(0, 9 ; 17) GR	E	88.888 23	1.0	9729
* 3737	P (2, 4 ; 28) GR	←	(1, 5 ; 29) GR	A	88.910 05	−0.1	2936
* 3738	P (2, −4 ; 29) GR	←	(1, −5 ; 30) GR	E	88.994 60	0.9	2613
* 3739	P (2, 3 ; 20) GR	←	(1, 4 ; 21) GR	A	89.068 44	0.2	8174
* 3740	R (0, 9 ; 24) GR	←	(0, 8 ; 23) GR	E	89.098 69	−1.0	8485
* 3741	P (1, 7 ; 14) GR	←	(1, 6 ; 15) GR	A	89.159 44	0.0	6728
* 3742	R (0, −6 ; 28) GR	←	(0, −5 ; 27) GR	E	89.174 33	0.4	8097
* 3743	R (1, −4 ; 20) GR	←	(1, −3 ; 19) GR	E	89.186 91	0.2	8682
* 3744	R (1, 4 ; 19) GR	←	(1, 3 ; 18) GR	A	89.306 97	0.4	7089
* 3745	R (0, 4 ; 37) GR	←	(0, 3 ; 36) GR	E	89.345 94	−0.7	3675
* 3746	R (1, −1 ; 7) GR	←	(1, 0 ; 6) GR	E	89.371 15	0.2	9346
* 3747	R (0, 8 ; 19) GR	←	(0, 7 ; 18) GR	E	89.386 18	−0.6	9803
* 3748	P (1, 9 ; 20) GR	←	(0, 10 ; 21) GR	A	89.389 58	0.7	5979
* 3749	R (0, 8 ; 23) GR	←	(0, 7 ; 22) GR	A	89.391 47	0.5	9756
* 3750	R (2, −2 ; 7) GR	←	(2, −1 ; 6) GR	E	89.468 78	0.5	5222



Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 3751	P (1, 8 ; 24)	GR ← (0, 9 ; 25)	GR	E	89.482 00	−0.1	2973
* 3752	R (1, 2 ; 9)	GR ← (1, 1 ; 8)	GR	E	89.510 10	0.2	9497
* 3753	P (2, −1 ; 16)	GR ← (1, −2 ; 17)	GR	E	89.519 86	0.2	8536
* 3754	R (0, −11 ; 11)	GR ← (0, −10 ; 10)	GR	E	89.660 10	−0.4	9658
* 3755	R (0, −8 ; 30)	GR ← (0, −7 ; 29)	GR	E	89.671 62	−0.2	6589
* 3756	R (0, 85 ; 32)	GR ← (0, 4 + ; 31)	GR	A	9.744 24	−4.1	6333
* 3757	R (0, 5 ; 40)	GR ← (0, 4 ; 39)	GR	E	89.774 61	0.0	3003
* 3758	R (1, 3 ; 14)	GR ← (1, 2 ; 13)	GR	A	89.778 36	0.6	9488
* 3759	R (1, 3 ; 14)	GR ← (1, 2 + ; 13)	GR	A	89.785 66	−0.2	9598
* 3760	R (0, −9 ; 21)	GR ← (0, −8 ; 20)	GR	E	89.796 48	0.5	9399
* 3761	R (0, 5 ; 32)	GR ← (0, 4 ; 31)	GR	A	89.805 57	6.7	6317
* 3762	R (1, 5 ; 27)	GR ← (1, 4 ; 26)	GR	E	89.810 49	0.1	4653
* 3763	R (0, 10 ; 18)	GR ← (0, 9 ; 17)	GR	A	89.819 41	0.6	9872
* 3764	P (1, 6 ; 14)	GR ← (1, 5 ; 15)	GR	E	89.844 23	−0.9	5541
* 3765	R (0, 9 ; 14)	GR ← (0, 8 ; 13)	GR	A	89.937 78	−0.7	9851
* 3766	P (1, −8 ; 9)	GR ← (1, −7 ; 10)	GR	E	90.177 16	1.1	2865
* 3767	R (0, 11 ; 16)	GR ← (0, 10 ; 15)	GR	A	90.184 44	1.0	9623
* 3768	P (2, 3 ; 26)	GR ← (1, 6 ; 27)	GR	A	90.264 20	1.8	2914
* 3769	R (0, 6 ; 33)	GR ← (0, 5 ; 32)	GR	A	90.268 98	0.4	6025
* 3770	R (0, 7 ; 35)	GR ← (0, 6 ; 34)	GR	A	90.347 69	0.4	5946
* 3771	R (0, 7 ; 26)	GR ← (0, 6 ; 25)	GR	E	90.381 60	−1.0	8718
* 3772	R (0, −7 ; 26)	GR ← (0, −6 ; 25)	GR	E	90.416 98	0.0	8427
* 3773	R (0, 10 ; 19)	GR ← (0, 9 ; 18)	GR	E	90.447 60	1.3	9282
* 3774	P (2, 4 ; 27)	GR ← (1, 5 ; 28)	GR	A	90.468 13	1.0	2925
* 3775	R (0, −10 ; 10)	GR ← (0, −9 ; 9)	GR	E	90.492 58	−0.5	9714
* 3776	R (0, 9 ; 25)	GR ← (0, 8 ; 24)	GR	E	90.640 81	0.8	8276
* 3777	R (0, 4 ; 38)	GR ← (0, 3 ; 37)	GR	E	90.674 59	1.9	3238
* 3778	P (1, 7 ; 13)	GR ← (1, 6 ; 14)	GR	A	90.688 50	−0.4	6453
* 3779	P (2, −4 ; 28)	GR ← (1, −5 ; 29)	GR	E	90.715 59	1.5	3350
* 3780	R (0, −6 ; 29)	GR ← (0, −5 ; 28)	GR	E	90.718 09	0.4	7832
* 3781	P (2, 3 ; 19)	GR ← (1, 4 ; 20)	GR	A	90.759 65	−0.7	9173
* 3782	R (1, −4 ; 21)	GR ← (1, −3 ; 20)	GR	E	90.793 13	0.5	9078
3783	R (1, 4 ; 20)	GR ← (1, 3 ; 19)	GR	A	90.942 93	8.1	9727
* 3784	R (1, −1 ; 8)	GR ← (1, 0 ; 7)	GR	E	90.942 93	−1.7	9727
* 3785	R (0, 8 ; 20)	GR ← (0, 7 ; 19)	GR	E	90.944 65	−0.3	9376
* 3786	R (0, 8 ; 24)	GR ← (0, 7 ; 23)	GR	A	90.956 56	−0.1	9753
* 3787	P (1, 9 ; 19)	GR ← (0, 10 ; 20)	GR	A	91.016 71	0.6	5084
* 3788	R (2, −2 ; 8)	GR ← (2, −1 ; 7)	GR	E	91.035 52	0.5	5257
* 3789	P (1, 8 ; 23)	GR ← (0, 9 ; 24)	GR	E	91.047 17	−1.0	4253
* 3790	R (1, 2 ; 10)	GR ← (1, 1 ; 9)	GR	E	91.081 56	−0.1	9531
* 3791	P (2, −1 ; 15)	GR ← (1, −2 ; 16)	GR	E	91.087 68	0.6	8587
* 3792	R (0, −8 ; 31)	GR ← (0, −7 ; 30)	GR	E	91.206 72	0.5	6038
* 3793	R (0, −11 ; 12)	GR ← (0, −10 ; 11)	GR	E	91.225 64	−0.3	9720
3794	R (0, 5 ; 41)	GR ← (0, 4 ; 40)	GR	E	91.242 73	0.0	2794
* 3795	R (1, 3 ; 15)	GR ← (1, 2 ; 14)	GR	A	91.353 47	0.6	9797
* 3796	R (0, −9 ; 22)	GR ← (0, −8 ; 21)	GR	E	91.358 89	1.7	9221
* 3797	R (0, 10 ; 19)	GR ← (0, 9 ; 18)	GR	A	91.361 75	−1.0	9514
* 3798	R (1, 3 ; 15)	GR ← (1, 2 + ; 14)	GR	A	91.363 04	−1.9	9383
* 3799	P (1, 6 ; 13)	GR ← (1, 5 ; 14)	GR	E	91.465 71	−0.1	5581
* 3800	R (0, 9 ; 15)	GR ← (0, 8 ; 14)	GR	A	91.504 31	1.6	9760
* 3801	R (1, 5 ; 28)	GR ← (1, 4 ; 27)	GR	E	91.596 97	0.5	3980
* 3802	P (2, 3 ; 25)	GR ← (1, 6 ; 26)	GR	A	91.658 38	1.8	2625
* 3803	R (0, 11 ; 17)	GR ← (0, 10 ; 16)	GR	A	91.741 95	1.0	9809
* 3804	R (0, 6 ; 34)	GR ← (0, 5 ; 33)	GR	A	91.768 64	0.8	4858
* 3805	R (0, 7 ; 36)	GR ← (0, 6 ; 35)	GR	A	91.894 43	0.2	5539
* 3806	R (0, 7 ; 27)	GR ← (0, 6 ; 26)	GR	E	91.943 43	0.8	8609
* 3807	R (0, −7 ; 27)	GR ← (0, −6 ; 26)	GR	E	91.952 46	0.2	8145
* 3808	R (0, 4 ; 39)	GR ← (0, 3 ; 38)	GR	E	91.994 87	0.0	4282
* 3809	R (0, 10 ; 20)	GR ← (0, 9 ; 19)	GR	E	92.006 20	0.3	9054
* 3810	P (2, 4 ; 26)	GR ← (1, 5 ; 27)	GR	A	92.029 45	1.2	2803
* 3811	R (0, −10 ; 11)	GR ← (0, −9 ; 10)	GR	E	92.061 84	0.3	6663
* 3812	R (0, 9 ; 26)	GR ← (0, 8 ; 25)	GR	E	92.180 43	−0.6	7894
* 3813	P (1, 7 ; 12)	GR ← (1, 6 ; 13)	GR	A	92.225 66	0.1	6437
* 3814	R (0, −6 ; 30)	GR ← (0, −5 ; 29)	GR	E	92.259 24	0.1	7004
* 3815	R (1, −4 ; 22)	GR ← (1, −3 ; 21)	GR	E	92.405 09	0.8	8499
* 3816	P (2, −4 ; 27)	GR ← (1, −5 ; 28)	GR	E	92.426 64	1.1	3555
* 3817	P (2, 3 ; 18)	GR ← (1, 4 ; 19)	GR	A	92.438 49	−0.1	9016
* 3818	R (0, 8 ; 21)	GR ← (0, 7 ; 20)	GR	E	92.501 13	−0.4	9641
* 3819	R (1, −1 ; 9)	GR ← (1, 0 ; 8)	GR	E	92.515 63	0.6	9747
* 3820	R (0, 8 ; 25)	GR ← (0, 7 ; 24)	GR	A	92.521 35	−1.5	0
* 3821	R (1, 4 ; 21)	GR ← (1, 3 ; 20)	GR	A	92.586 40	−0.3	5607
* 3822	R (2, −2 ; 9)	GR ← (2, −1 ; 8)	GR	E	92.601 80	0.3	5793
* 3823	P (1, 8 ; 22)	GR ← (0, 9 ; 23)	GR	E	92.618 28	−0.2	3459
* 3824	P (1, 9 ; 18)	GR ← (0, 10 ; 19)	GR	A	92.640 56	0.0	5628
* 3825	R (1, 2 ; 11)	GR ← (1, 1 ; 10)	GR	E	92.653 60	−0.1	9518

Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 3826	P (2, −1 ; 14)	GR ← (1, −2 ; 15)	GR	E	92.658 38	−0.4	8550
* 3827	R (0, −8 ; 32)	GR ← (0, −7 ; 31)	GR	E	92.739 48	0.8	5643
* 3828	R (0, −11 ; 13)	GR ← (0, −10 ; 12)	GR	E	92.790 00	0.4	9468
* 3829	R (0, 10 ; 20)	GR ← (0, 9 ; 19)	GR	A	92.919 98	1.1	9562
* 3830	R (0, −9 ; 23)	GR ← (0, −8 ; 22)	GR	E	92.920 96	0.1	5140
* 3831	R (1, 3 ; 16)	GR ← (1, 2 ; 15)	GR	A	92.930 10	1.6	9417
* 3832	R (1, 3 ; 16)	GR ← (1, 2 + ; 15)	GR	A	92.942 65	−1.2	9365
* 3833	Q (0, 13 ; 28)	GR ← (0, 12 ; 28)	GR	A	92.945 22	0.0	0
* 3834	Q (0, 13 ; 27)	GR ← (0, 12 ; 27)	GR	A	92.971 10	0.4	5353
* 3835	Q (0, 13 ; 26)	GR ← (0, 12 ; 26)	GR	A	92.983 67	0.8	5335
* 3836	Q (0, 13 ; 25)	GR ← (0, 12 ; 25)	GR	A	92.995 37	−0.1	5986
* 3837	Q (0, 13 ; 24)	GR ← (0, 12 ; 24)	GR	A	93.006 10	0.2	6499
* 3838	Q (0, 13 ; 23)	GR ← (0, 12 ; 23)	GR	A	93.016 19	1.2	6696
* 3839	Q (0, 13 ; 22)	GR ← (0, 12 ; 22)	GR	A	93.025 19	0.6	7062
* 3840	Q (0, 13 ; 21)	GR ← (0, 12 ; 21)	GR	A	93.033 74	0.7	6953
* 3841	Q (0, 13 ; 20)	GR ← (0, 12 ; 20)	GR	A	93.041 41	0.3	6884
* 3842	Q (0, 13 ; 19)	GR ← (0, 12 ; 19)	GR	A	93.048 48	0.9	7265
* 3843	Q (0, 13 ; 18)	GR ← (0, 12 ; 18)	GR	A	93.054 97	−0.3	7003
* 3844	Q (0, 13 ; 17)	GR ← (0, 12 ; 17)	GR	A	93.060 83	−0.4	7758
* 3845	Q (0, 13 ; 16)	GR ← (0, 12 ; 16)	GR	A	93.066 22	−0.4	7537
* 3846	R (0, 9 ; 16)	GR ← (0, 8 ; 15)	GR	A	93.069 28	−1.4	9787
* 3847	Q (0, 13 ; 15)	GR ← (0, 12 ; 15)	GR	A	93.070 91	−0.4	0
* 3848	Q (0, 13 ; 14)	GR ← (0, 12 ; 14)	GR	A	93.075 66	1.4	7731
3849	P (1, 6 ; 12)	GR ← (1, 5 ; 13)	GR	E	93.075 66	−3.7	7731
* 3850	Q (0, 13 ; 13)	GR ← (0, 12 ; 13)	GR	A	93.079 48	4.2	4979
* 3851	R (0, 6 ; 35)	GR ← (0, 5 ; 34)	GR	A	93.259 83	−2.1	4800
* 3852	R (0, 11 ; 18)	GR ← (0, 10 ; 17)	GR	A	93.297 97	1.1	9663
* 3853	R (0, 4 ; 40)	GR ← (0, 3 ; 39)	GR	E	93.307 64	0.0	6115
* 3854	R (1, 5 ; 29)	GR ← (1, 4 ; 28)	GR	E	93.399 88	0.6	3497
* 3855	R (0, 7 ; 37)	GR ← (0, 6 ; 36)	GR	A	93.440 53	0.4	4753
* 3856	R (0, −7 ; 28)	GR ← (0, −6 ; 27)	GR	E	93.484 18	−0.2	7810
* 3857	R (0, 7 ; 28)	GR ← (0, 6 ; 27)	GR	E	93.504 77	1.8	8256
* 3858	R (0, 10 ; 21)	GR ← (0, 9 ; 20)	GR	E	93.563 96	−1.1	9295
* 3859	P (2, 4 ; 25)	GR ← (1, 5 ; 26)	GR	A	93.593 40	0.8	3117
* 3860	R (0, −10 ; 12)	GR ← (0, −9 ; 11)	GR	E	93.630 41	−0.5	6533
* 3861	R (0, 9 ; 27)	GR ← (0, 8 ; 26)	GR	E	93.717 27	−0.5	7710
* 3862	P (1, 7 ; 11)	GR ← (1, 6 ; 12)	GR	A	93.769 88	0.5	5863
* 3863	R (0, −6 ; 31)	GR ← (0, −5 ; 30)	GR	E	93.797 53	−0.5	7075
* 3864	R (1, −4 ; 23)	GR ← (1, −3 ; 22)	GR	E	94.023 57	0.5	8093
* 3865	R (0, 8 ; 22)	GR ← (0, 7 ; 21)	GR	E	94.055 80	3.0	9444
* 3866	R (0, 8 ; 26)	GR ← (0, 7 ; 25)	GR	A	94.086 72	−0.6	9846
* 3867	R (1, −1 ; 10)	GR ← (1, 0 ; 9)	GR	E	94.088 65	0.2	9441
* 3868	P (2, 3 ; 17)	GR ← (1, 4 ; 18)	GR	A	94.105 39	0.5	9100
* 3869	P (2, −4 ; 26)	GR ← (1, −5 ; 27)	GR	E	94.128 49	1.4	1865
* 3870	R (2, −2 ; 10)	GR ← (2, −1 ; 9)	GR	E	94.167 59	−0.4	5788
* 3871	P (1, 8 ; 21)	GR ← (0, 9 ; 22)	GR	E	94.194 59	0.9	3795
* 3872	R (1, 2 ; 12)	GR ← (1, 1 ; 11)	GR	E	94.226 43	0.0	9609
* 3873	P (2, −1 ; 13)	GR ← (1, −2 ; 14)	GR	E	94.231 47	0.5	8879
* 3874	R (1, 4 ; 22)	GR ← (1, 3 ; 21)	GR	A	94.240 38	1.9	4842
* 3875	P (1, 9 ; 17)	GR ← (0, 10 ; 18)	GR	A	94.261 23	−0.8	6097
* 3876	R (0, −8 ; 33)	GR ← (0, −7 ; 32)	GR	E	94.269 94	0.9	5054
* 3877	R (0, −11 ; 14)	GR ← (0, −10 ; 13)	GR	E	94.353 10	−0.2	9349
* 3878	R (0, 10 ; 21)	GR ← (0, 9 ; 20)	GR	A	94.470 69	0.5	9716
* 3879	R (0, −9 ; 24)	GR ← (0, −8 ; 23)	GR	E	94.482 83	−0.5	8733
* 3880	P (2, 3 ; 23)	GR ← (1, 6 ; 24)	GR	A	94.492 74	−1.3	3041
* 3881	R (1, 3 ; 17)	GR ← (1, 2 ; 16)	GR	A	94.508 35	2.4	9365
* 3882	R (1, 3 ; 17)	GR ← (1, 2 + ; 16)	GR	A	94.524 51	−1.2	9402
* 3883	R (0, 9 ; 17)	GR ← (0, 8 ; 16)	GR	A	94.632 19	−0.7	4600
* 3884	P (1, 6 ; 11)	GR ← (1, 5 ; 12)	GR	E	94.676 80	0.1	5352
* 3885	R (0, 11 ; 19)	GR ← (0, 10 ; 18)	GR	A	94.852 61	−0.1	9761
* 3886	R (0, 7 ; 38)	GR ← (0, 6 ; 37)	GR	A	94.986 10	2.1	4156
* 3887	R (0, −7 ; 29)	GR ← (0, −6 ; 28)	GR	E	95.011 83	0.5	7455
* 3888	Q (1, 9 ; 33)	GR ← (1, 8 ; 33)	GR	E	95.042 08	0.9	3331
* 3889	R (0, 7 ; 29)	GR ← (0, 6 ; 28)	GR	E	95.065 54	0.4	8141
* 3890	R (0, 10 ; 22)	GR ← (0, 9 ; 21)	GR	E	95.120 83	−0.1	8904
* 3891	Q (1, 9 ; 32)	GR ← (1, 8 ; 32)	GR	E	95.142 90	−1.6	3253
* 3892	P (2, 4 ; 24)	GR ← (1, 5 ; 25)	GR	A	95.160 09	0.0	3290
* 3893	R (0, −10 ; 13)	GR ← (0, −9 ; 12)	GR	E	95.198 42	−0.1	9626
* 3894	R (1, 5 ; 30)	GR ← (1, 4 ; 29)	GR	E	95.219 41	2.2	3647
* 3895	Q (1, 9 ; 31)	GR ← (1, 8 ; 31)	GR	E	95.242 87	−1.6	3584
* 3896	R (0, 9 ; 28)	GR ← (0, 8 ; 27)	GR	E	95.251 49	0.7	8630
* 3897	P (1, 7 ; 10)	GR ← (1, 6 ; 11)	GR	A	95.320 27	−0.1	6070
* 3898	R (0, −6 ; 32)	GR ← (0, −5 ; 31)	GR	E	95.332 94	0.3	6353
* 3899	Q (1, 9 ; 30)	GR ← (1, 8 ; 30)	GR	E	95.339 99	1.2	3891
* 3900	Q (1, 9 ; 29)	GR ← (1, 8 ; 29)	GR	E	95.434 03	−0.1	3849



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 3901	Q (1, 9 ; 28) GR	←	(1, 8 ; 28) GR	E	95.524 57	−0.6	4200
* 3902	R (0, 8 ; 23) GR	←	(0, 7 ; 22) GR	E	95.607 55	−1.0	9466
3903	Q (1, 9 ; 27) GR	←	(1, 8 ; 27) GR	E	95.612 29	9.7	8821
* 3904	R (1, −4 ; 24) GR	←	(1, −3 ; 23) GR	E	95.649 11	0.4	8067
* 3905	R (0, 8 ; 27) GR	←	(0, 7 ; 26) GR	A	95.651 95	0.1	9240
* 3906	R (1, −1 ; 11) GR	←	(1, 0 ; 10) GR	E	95.662 38	0.7	9178
* 3907	Q (1, 9 ; 26) GR	←	(1, 8 ; 26) GR	E	95.693 84	1.0	5338
* 3908	R (2, −2 ; 11) GR	←	(2, −1 ; 10) GR	E	95.732 78	1.5	5834
* 3909	P (2, 3 ; 16) GR	←	(1, 4 ; 17) GR	A	95.761 08	−0.2	9420
* 3910	Q (1, 9 ; 25) GR	←	(1, 8 ; 25) GR	E	95.771 65	0.7	5649
* 3911	P (1, 8 ; 20) GR	←	(0, 9 ; 21) GR	E	95.775 88	0.2	3972
* 3912	R (0, −8 ; 34) GR	←	(0, −7 ; 33) GR	E	95.798 01	0.0	5615
* 3913	R (1, 2 ; 13) GR	←	(1, 1 ; 12) GR	E	95.800 21	0.6	9822
* 3914	P (2, −1 ; 12) GR	←	(1, −2 ; 13) GR	E	95.806 37	−0.8	9028
* 3915	P (2, −4 ; 25) GR	←	(1, −5 ; 26) GR	E	95.820 89	−1.3	4541
* 3916	Q (1, 9 ; 24) GR	←	(1, 8 ; 24) GR	E	95.844 66	−0.6	5900
* 3917	P (1, 9 ; 16) GR	←	(0, 10 ; 17) GR	A	95.878 69	−0.4	6703
* 3918	R (1, 4 ; 23) GR	←	(1, 3 ; 22) GR	A	95.902 65	−0.9	4598
* 3919	R (1, 4 ; 23) GR	←	(1, 3 +; 22) GR	A	95.904 49	3.1	6124
* 3920	Q (1, 9 ; 23) GR	←	(1, 8 ; 23) GR	E	95.912 51	0.9	6695
* 3921	R (0, −11 ; 15) GR	←	(0, −10 ; 14) GR	E	95.914 85	−0.5	9500
* 3922	P (2, 3 ; 22) GR	←	(1, 6 ; 23) GR	A	95.932 76	0.4	2883
* 3923	Q (1, 9 ; 22) GR	←	(1, 8 ; 22) GR	E	95.974 87	−0.1	6806
* 3924	R (0, 10 ; 22) GR	←	(0, 9 ; 21) GR	A	96.018 50	−0.2	9790
* 3925	Q (1, 9 ; 21) GR	←	(1, 8 ; 21) GR	E	96.031 83	1.1	6872
* 3926	R (0, −9 ; 25) GR	←	(0, −8 ; 24) GR	E	96.044 54	−1.2	8888
* 3927	Q (1, 9 ; 20) GR	←	(1, 8 ; 20) GR	E	96.083 16	0.5	7434
* 3928	R (1, 3 ; 18) GR	←	(1, 2 ; 17) GR	A	96.088 57	2.3	9448
* 3929	R (1, 3 ; 18) GR	←	(1, 2 +; 17) GR	A	96.108 96	−1.7	9425
* 3930	Q (1, 9 ; 19) GR	←	(1, 8 ; 19) GR	E	96.129 00	0.1	7282
* 3931	Q (1, 9 ; 18) GR	←	(1, 8 ; 18) GR	E	96.169 33	−1.8	8943
* 3932	Q (1, 9 ; 17) GR	←	(1, 8 ; 17) GR	E	96.204 75	0.6	8729
* 3933	R (0, 9 ; 18) GR	←	(0, 8 ; 17) GR	A	96.207 59	0.5	9708
* 3934	Q (1, 9 ; 16) GR	←	(1, 8 ; 16) GR	E	96.234 99	1.2	7936
* 3935	Q (1, 9 ; 15) GR	←	(1, 8 ; 15) GR	E	96.260 56	−0.6	8315
* 3936	P (1, 6 ; 10) GR	←	(1, 5 ; 11) GR	E	96.269 48	0.8	5064
* 3937	Q (1, 9 ; 14) GR	←	(1, 8 ; 14) GR	E	96.282 14	1.3	7942
* 3938	Q (1, 9 ; 13) GR	←	(1, 8 ; 13) GR	E	96.299 65	−0.1	7743
* 3939	Q (1, 9 ; 12) GR	←	(1, 8 ; 12) GR	E	96.313 80	0.6	7364
* 3940	Q (1, 9 ; 11) GR	←	(1, 8 ; 11) GR	E	96.325 04	−0.3	7400
* 3941	Q (1, 9 ; 10) GR	←	(1, 8 ; 10) GR	E	96.333 79	−1.1	6882
* 3942	Q (1, 9 ; 9) GR	←	(1, 8 ; 9) GR	E	96.340 43	0.0	4937
* 3943	R (0, 11 ; 20) GR	←	(0, 10 ; 19) GR	A	96.405 82	0.5	9806
* 3944	R (0, 7 ; 39) GR	←	(0, 6 ; 38) GR	A	96.531 29	2.2	4943
* 3945	R (0, −7 ; 30) GR	←	(0, −6 ; 29) GR	E	96.535 23	−0.1	7035
* 3946	R (0, 7 ; 30) GR	←	(0, 6 ; 29) GR	E	96.625 77	−0.6	7383
* 3947	R (0, 10 ; 23) GR	←	(0, 9 ; 22) GR	E	96.676 93	2.0	8702
* 3948	Q (2, −5 ; 27) GR	←	(1, −6 ; 27) GR	E	96.706 10	2.1	5516
* 3949	Q (2, −5 ; 28) GR	←	(1, −6 ; 28) GR	E	96.706 10	−0.5	5516
* 3950	Q (2, −5 ; 26) GR	←	(1, −6 ; 26) GR	E	96.708 12	−0.4	4453
* 3951	Q (2, −5 ; 29) GR	←	(1, −6 ; 29) GR	E	96.709 78	1.6	3527
* 3952	Q (2, −5 ; 25) GR	←	(1, −6 ; 25) GR	E	96.713 01	0.3	4724
* 3953	Q (2, −5 ; 30) GR	←	(1, −6 ; 30) GR	E	96.716 62	1.3	3389
* 3954	Q (2, −5 ; 24) GR	←	(1, −6 ; 24) GR	E	96.719 98	0.8	5086
* 3955	Q (2, −5 ; 31) GR	←	(1, −6 ; 31) GR	E	96.726 96	−0.4	3440
* 3956	Q (2, −5 ; 23) GR	←	(1, −6 ; 23) GR	E	96.729 01	2.2	6207
* 3957	P (2, 4 ; 23) GR	←	(1, 5 ; 24) GR	A	96.729 01	−1.0	6207
* 3958	Q (2, −5 ; 22) GR	←	(1, −6 ; 22) GR	E	96.739 36	−0.4	8812
* 3959	Q (2, −5 ; 32) GR	←	(1, −6 ; 32) GR	E	96.741 44	−0.6	3592
* 3960	Q (2, −5 ; 21) GR	←	(1, −6 ; 21) GR	E	96.751 20	0.6	5560
* 3961	Q (2, −5 ; 33) GR	←	(1, −6 ; 33) GR	E	96.760 30	0.0	4988
* 3962	Q (2, −5 ; 20) GR	←	(1, −6 ; 20) GR	E	96.764 40	1.5	4444
* 3963	R (0, −10 ; 14) GR	←	(0, −9 ; 13) GR	E	96.765 72	−0.4	9356
* 3964	Q (2, −5 ; 19) GR	←	(1, −6 ; 19) GR	E	96.778 17	−0.1	6307
* 3965	R (0, 9 ; 29) GR	←	(0, 8 ; 28) GR	E	96.782 66	0.6	7049
* 3966	Q (2, −5 ; 18) GR	←	(1, −6 ; 18) GR	E	96.792 85	1.1	6330
* 3967	Q (2, −5 ; 17) GR	←	(1, −6 ; 17) GR	E	96.807 55	−2.8	9392
* 3968	Q (2, −5 ; 16) GR	←	(1, −6 ; 16) GR	E	96.823 23	0.0	6929
* 3969	Q (2, −5 ; 15) GR	←	(1, −6 ; 15) GR	E	96.838 75	−0.4	6556
* 3970	Q (2, −5 ; 14) GR	←	(1, −6 ; 14) GR	E	96.854 18	0.4	7226
* 3971	R (0, −6 ; 33) GR	←	(0, −5 ; 32) GR	E	96.865 19	0.5	6043
* 3972	Q (2, −5 ; 13) GR	←	(1, −6 ; 13) GR	E	96.869 29	0.1	7236
* 3973	P (1, 7 ; 9) GR	←	(1, 6 ; 10) GR	A	96.875 76	−0.2	4689
* 3974	Q (2, −5 ; 12) GR	←	(1, −6 ; 12) GR	E	96.884 08	0.4	7196
* 3975	Q (2, −5 ; 11) GR	←	(1, −6 ; 11) GR	E	96.898 20	0.3	6489

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 3976	Q (2, −5 ; 10) GR	←	(1, −6 ; 10) GR	E	96.911 65	−0.2	6467
* 3977	Q (2, −5 ; 9) GR	←	(1, −6 ; 9) GR	E	96.924 33	0.5	6791
* 3978	Q (2, −5 ; 8) GR	←	(1, −6 ; 8) GR	E	96.935 99	0.3	5818
* 3979	Q (2, −5 ; 7) GR	←	(1, −6 ; 7) GR	E	96.946 55	−0.2	5584
* 3980	Q (2, −5 ; 6) GR	←	(1, −6 ; 6) GR	E	96.956 12	1.1	3644
* 3981	R (1, 5 ; 31) GR	←	(1, 4 ; 30) GR	E	97.054 91	−3.1	2950
* 3982	R (0, 8 ; 24) GR	←	(0, 7 ; 23) GR	E	97.157 29	−0.1	8849
* 3983	R (0, 8 ; 28) GR	←	(0, 7 ; 27) GR	A	97.217 39	0.6	8939
* 3984	R (1, −1 ; 12) GR	←	(1, 0 ; 11) GR	E	97.237 05	0.0	9524
* 3985	R (1, −4 ; 25) GR	←	(1, −3 ; 24) GR	E	97.282 20	0.7	7600
* 3986	R (2, −2 ; 12) GR	←	(2, −1 ; 11) GR	E	97.297 26	0.1	5558
* 3987	R (0, −8 ; 35) GR	←	(0, −7 ; 34) GR	E	97.323 67	−0.1	4271
* 3988	P (1, 8 ; 19) GR	←	(0, 9 ; 20) GR	E	97.362 13	0.9	4445
* 3989	R (1, 2 ; 14) GR	←	(1, 1 ; 13) GR	E	97.375 23	0.1	9386
* 3990	P (2, −1 ; 11) GR	←	(1, −2 ; 12) GR	E	97.382 77	−0.1	9062
* 3991	P (2, 3 ; 21) GR	←	(1, 6 ; 22) GR	A	97.387 05	0.6	3433
* 3992	P (2, 3 ; 15) GR	←	(1, 4 ; 16) GR	A	97.406 21	0.4	9443
* 3993	R (0, −11 ; 16) GR	←	(0, −10 ; 15) GR	E	97.475 21	1.2	9202
* 3994	P (1, 9 ; 15) GR	←	(0, 10 ; 16) GR	A	97.493 03	−0.9	6689
* 3995	P (2, −4 ; 24) GR	←	(1, −5 ; 25) GR	E	97.504 77	0.5	4153
* 3996	R (0, 11 ; 11) GR	←	(0, 10 ; 10) GR	E	97.533 62	0.2	9614
* 3997	R (0, 10 ; 23) GR	←	(0, 9 ; 22) GR	A	97.563 73	−0.3	9522
* 3998	R (1, 4 ; 24) GR	←	(1, 3 ; 23) GR	A	97.575 32	1.1	4063
* 3999	R (1, 4 ; 24) GR	←	(1, 3 +; 23) GR	A	97.577 26	1.9	4217
* 4000	R (0, −9 ; 26) GR	←	(0, −8 ; 25) GR	E	97.606 24	1.1	8573
* 4001	R (1, 3 ; 19) GR	←	(1, 2 ; 18) GR	A	97.671 01	2.5	9172
* 4002	R (1, 3 ; 19) GR	←	(1, 2 +; 18) GR	A	97.696 43	−3.0	9371
* 4003	R (0, 9 ; 19) GR	←	(0, 8 ; 18) GR	A	97.763 86	−0.5	5044
* 4004	P (1, 6 ; 9) GR	←	(1, 5 ; 10) GR	E	97.855 31	−0.2	5091
* 4005	R (0, 11 ; 21) GR	←	(0, 10 ; 20) GR	A	97.957 45	0.6	9721
4006	Q (1, −5 ; 5) GR	←	(1, −4 ; 5) GR	E	97.971 48	4.3	7992
* 4007	Q (1, −5 ; 6) GR	←	(1, −4 ; 6) GR	E	97.971 48	2.8	7992
* 4008	Q (1, −5 ; 7) GR	←	(1, −4 ; 7) GR	E	97.971 48	0.7	7992
4009	Q (1, −5 ; 8) GR	←	(1, −4 ; 8) GR	E	97.971 48	−4.0	7992
4010	Q (1, −5 ; 9) GR	←	(1, −4 ; 9) GR	E	97.973 33	6.3	9417
4011	Q (1, −5 ; 10) GR	←	(1, −4 ; 10) GR	E	97.973 33	−4.5	9417
* 4012	Q (1, −5 ; 11) GR	←	(1, −4 ; 11) GR	E	97.975 44	0.4	9098
* 4013	Q (1, −5 ; 12) GR	←	(1, −4 ; 12) GR	E	97.977 61	1.0	9125
* 4014	Q (1, −5 ; 13) GR	←	(1, −4 ; 13) GR	E	97.980 22	−0.2	8766
* 4015	Q (1, −5 ; 14) GR	←	(1, −4 ; 14) GR	E	97.983 85	0.8	8546
* 4016	Q (1, −5 ; 15) GR	←	(1, −4 ; 15) GR	E	97.988 01	−0.9	8684
* 4017	Q (1, −5 ; 16) GR	←	(1, −4 ; 16) GR	E	97.993 35	0.5	8570
* 4018	Q (1, −5 ; 17) GR	←	(1, −4 ; 17) GR	E	97.999 56	−0.4	8348
* 4019	Q (1, −5 ; 18) GR	←	(1, −4 ; 18) GR	E	98.006 98	0.4	8438
* 4020	Q (1, −5 ; 19) GR	←	(1, −4 ; 19) GR	E	98.015 57	−0.2	8627
* 4021	Q (1, −5 ; 20) GR	←	(1, −4 ; 20) GR	E	98.025 58	0.2	7799
* 4022	Q (1, −5 ; 21) GR	←	(1, −4 ; 21) GR	E	98.036 93	−0.4	7407
* 4023	Q (1, −5 ; 22) GR	←	(1, −4 ; 22) GR	E	98.049 85	0.7	7120
* 4024	R (0, −7 ; 31) GR	←	(0, −6 ; 30) GR	E	98.054 06	−0.1	6452
* 4025	Q (1, −5 ; 23) GR	←	(1, −4 ; 23) GR	E	98.064 12	0.0	6992
* 4026	R (0, 7 ; 40) GR	←	(0, 6 ; 39) GR	A	98.075 59	2.8	3133
* 4027	Q (1, −5 ; 24) GR	←	(1, −4 ; 24) GR	E	98.079 94	0.0	6532
* 4028	Q (1, −5 ; 25) GR	←	(1, −4 ; 25) GR	E	98.097 46	0.6	6035
* 4029	Q (1, −5 ; 26) GR	←	(1, −4 ; 26) GR	E	98.116 38	0.2	5851
* 4030	Q (1, −5 ; 27) GR	←	(1, −4 ; 27) GR	E	98.136 82	−0.1	5671
* 4031	Q (1, −5 ; 28) GR	←	(1, −4 ; 28) GR	E	98.158 80	−0.3	5162
* 4032	Q (1, −5 ; 29) GR	←	(1, −4 ; 29) GR	E	98.182 02	1.0	4246
* 4033	R (0, 7 ; 31) GR	←	(0, 6 ; 30) GR	E	98.185 54	−1.3	6719
* 4034	Q (1, −5 ; 30) GR	←	(1, −4 ; 30) GR	E	98.206 65	1.7	4250
* 4035	R (0, 10 ; 24) GR	←	(0, 9 ; 23) GR	E	98.232 18	0.3	8795
* 4036	Q (1, −5 ; 31) GR	←	(1, −4 ; 31) GR	E	98.232 18	−1.6	8795
* 4037	P (2, 4 ; 22) GR	←	(1, 5 ; 23) GR	A	98.300 24	−0.3	3799
* 4038	R (0, 9 ; 30) GR	←	(0, 8 ; 29) GR	E	98.310 62	0.6	6281
* 4039	R (0, −10 ; 15) GR	←	(0, −9 ; 14) GR	E	98.332 22	−0.5	9702
* 4040	R (0, −6 ; 34) GR	←	(0, −5 ; 33) GR	E	98.394 15	−0.7	5605
* 4041	P (1, 7 ; 8) GR	←	(1, 6 ; 9) GR	A	98.435 64	0.2	3777
* 4042	R (0, 8 ; 25) GR	←	(0, 7 ; 24) GR	E	98.704 38	0.4	8518
* 4043	R (0, 8 ; 29) GR	←	(0, 7 ; 28) GR	A	98.783 14	0.0	8986
* 4044	R (1, −1 ; 13) GR	←	(1, 0 ; 12) GR	E	98.812 93	0.7	9251
* 4045	R (0, −8 ; 36) GR	←	(0, −7 ; 35) GR	E	98.846 60	0.9	3881
4046	P (2, 3 ; 20) GR	←	(1, 6 ; 21) GR	A	98.854 58	−5.9	2508
* 4047	R (2, −2 ; 13) GR	←	(2, −1 ; 12) GR	E	98.860 76	−1.9	6147
* 4048	R (1, 5 ; 32) GR	←	(1, 4 ; 31) GR	E	98.907 79	1.7	2779
* 4049	R (1, −4 ; 26) GR	←	(1, −3 ; 25) GR	E	98.923 58	0.9	7853
* 4050	R (1, 2 ; 15) GR	←	(1, 1 ; 14) GR	E	98.951 74	0.7	9333



Index	upper state T	(n,	K	; J)	v	←	lower state (n,	K	; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
4051	P	(1,	8	; 18)	GR	←	(0,	9	; 19)	GR	E	98.951 74	−7.0	9333
* 4052	P	(2,	−1	; 10)	GR	←	(1,	−2	; 11)	GR	E	98.960 27	−0.4	9210
* 4053	R	(0,	−11	; 17)	GR	←	(0,	−10	; 16)	GR	E	99.034 05	0.1	9409
* 4054	P	(2,	3	; 14)	GR	←	(1,	4	; 15)	GR	A	99.041 55	0.0	9753
* 4055	R	(0,	11	; 12)	GR	←	(0,	10	; 11)	GR	E	99.101 18	0.0	9633
* 4056	P	(1,	9	; 14)	GR	←	(0,	10	; 15)	GR	A	99.104 39	0.0	8231
* 4057	R	(0,	10	; 24)	GR	←	(0,	9	; 23)	GR	A	99.106 17	0.7	9277
* 4058	R	(0,	−9	; 27)	GR	←	(0,	−8	; 26)	GR	E	99.167 82	1.1	8134
* 4059	P	(2,	−4	; 23)	GR	←	(1,	−5	; 24)	GR	E	99.179 95	−0.5	4790
* 4060	R	(1,	3	; 20)	GR	←	(1,	2 $^-$	; 19)	GR	A	99.255 92	3.0	8992
4061	R	(1,	3	; 20)	GR	←	(1,	2 $^+$	; 19)	GR	A	99.287 26	−5.1	9289
* 4062	R	(0,	9	; 20)	GR	←	(0,	8	; 19)	GR	A	99.323 99	0.2	9877
* 4063	P	(1,	−7	; 24)	GR	←	(0,	−8	; 25)	GR	E	99.360 50	0.7	3365
* 4064	P	(1,	6	; 8)	GR	←	(1,	5	; 9)	GR	E	99.435 77	0.4	4233
* 4065	R	(0,	11	; 22)	GR	←	(0,	10	; 21)	GR	A	99.507 47	−1.3	9491
* 4066	R	(0,	−7	; 32)	GR	←	(0,	−6	; 31)	GR	E	99.568 21	−0.1	6151
* 4067	R	(0,	7	; 41)	GR	←	(0,	6	; 40)	GR	A	99.619 47	0.0	3025
* 4068	R	(0,	7	; 32)	GR	←	(0,	6	; 31)	GR	E	99.744 74	−1.2	6156
* 4069	R	(0,	10	; 25)	GR	←	(0,	9	; 24)	GR	E	99.786 72	0.6	8318
* 4070	R	(0,	9	; 31)	GR	←	(0,	8	; 30)	GR	E	99.835 25	0.0	5545
* 4071	P	(2,	4	; 21)	GR	←	(1,	5	; 22)	GR	A	99.873 27	0.2	4189
* 4072	R	(0,	−10	; 16)	GR	←	(0,	−9	; 15)	GR	E	99.898 02	1.0	9602
* 4073	R	(0,	−6	; 35)	GR	←	(0,	−5	; 34)	GR	E	99.919 60	0.0	5144
* 4074	P	(1,	7	; 7)	GR	←	(1,	6	; 8)	GR	A	99.998 99	−0.2	966
* 4075	R	(0,	8	; 26)	GR	←	(0,	7	; 25)	GR	E	100.248 74	−0.7	8590
4076	P	(2,	3	; 19)	GR	←	(1,	6	; 20)	GR	A	100.336 42	−3.9	3009
* 4077	R	(0,	8	; 30)	GR	←	(0,	7	; 29)	GR	A	100.349 12	0.1	8801
* 4078	R	(0,	−8	; 37)	GR	←	(0,	−7	; 36)	GR	E	100.367 22	0.5	3611
* 4079	R	(1,	−1	; 14)	GR	←	(1,	0	; 13)	GR	E	100.390 01	1.0	9550
* 4080	R	(2,	−2	; 14)	GR	←	(2,	−1	; 13)	GR	E	100.424 12	0.8	6226
* 4081	R	(1,	2	; 16)	GR	←	(1,	1	; 15)	GR	E	100.529 71	−0.1	9776
* 4082	P	(2,	−1	; 9)	GR	←	(1,	−2	; 10)	GR	E	100.538 31	−0.8	5922
* 4083	P	(1,	8	; 17)	GR	←	(0,	9	; 18)	GR	E	100.546 75	−1.9	2330
* 4084	R	(1,	−4	; 27)	GR	←	(1,	−3	; 26)	GR	E	100.573 72	0.6	6950
* 4085	P	(2,	4	; 31)	GR	←	(1,	3 $^-$	; 32)	GR	A	100.586 67	−2.0	1262
* 4086	R	(0,	−11	; 18)	GR	←	(0,	−10	; 17)	GR	E	100.591 08	0.0	8945
* 4087	P	(2,	4	; 31)	GR	←	(1,	3 $^+$	; 32)	GR	A	100.598 72	0.7	1359
* 4088	R	(0,	10	; 25)	GR	←	(0,	9	; 24)	GR	A	100.645 71	−0.4	9126
* 4089	P	(2,	3	; 13)	GR	←	(1,	4	; 14)	GR	A	100.668 05	1.1	8349
* 4090	R	(0,	11	; 13)	GR	←	(0,	10	; 12)	GR	E	100.668 00	−1.8	9758
* 4091	R	(1,	10	; 10)	GR	←	(1,	9	; 9)	GR	A	100.686 05	−1.5	9773
* 4092	P	(1,	9	; 13)	GR	←	(0,	10	; 14)	GR	A	100.712 66	−0.3	3883
* 4093	R	(0,	−9	; 28)	GR	←	(0,	−8	; 27)	GR	E	100.729 42	−1.0	7818
4094	R	(1,	3	; 21)	GR	←	(1,	2 $^-$	; 20)	GR	A	100.843 68	5.3	8942
* 4095	P	(2,	−4	; 22)	GR	←	(1,	−5	; 23)	GR	E	100.846 64	−2.1	1941
* 4096	R	(1,	3	; 21)	GR	←	(1,	2 $^+$	; 20)	GR	A	100.882 04	−2.6	9569
* 4097	R	(0,	9	; 21)	GR	←	(0,	8	; 20)	GR	A	100.883 37	0.5	9836
* 4098	R	(1,	4	; 26)	GR	←	(1,	3 $^-$	; 25)	GR	A	100.949 24	−0.3	3428
* 4099	R	(1,	4	; 26)	GR	←	(1,	3 $^+$	; 25)	GR	A	100.952 26	1.0	3359
* 4100	P	(1,	6	; 7)	GR	←	(1,	5	; 8)	GR	E	101.011 99	2.1	3587
* 4101	R	(0,	11	; 23)	GR	←	(0,	10	; 22)	GR	A	101.055 95	0.1	9412
* 4102	P	(1,	−7	; 23)	GR	←	(0,	−8	; 24)	GR	E	101.072 99	−1.9	1844
* 4103	R	(0,	−7	; 33)	GR	←	(0,	−6	; 32)	GR	E	101.077 27	0.8	5884
* 4104	P	(1,	10	; 25)	GR	←	(0,	11	; 26)	GR	A	101.197 55	0.0	1456
* 4105	R	(0,	7	; 33)	GR	←	(0,	6	; 32)	GR	E	101.303 46	−0.2	5923
* 4106	R	(0,	10	; 26)	GR	←	(0,	9	; 25)	GR	E	101.340 34	−1.3	8023
* 4107	R	(0,	9	; 32)	GR	←	(0,	8	; 31)	GR	E	101.355 66	0.6	5263
* 4108	R	(0,	−6	; 36)	GR	←	(0,	−5	; 35)	GR	E	101.441 30	0.0	4521
* 4109	P	(2,	4	; 20)	GR	←	(1,	5	; 21)	GR	A	101.448 01	−0.2	1844
* 4110	R	(0,	−10	; 17)	GR	←	(0,	−9	; 16)	GR	E	101.462 91	−0.4	9589
* 4111	R	(0,	8	; 27)	GR	←	(0,	7	; 26)	GR	E	101.790 13	0.5	8114
* 4112	P	(2,	3	; 18)	GR	←	(1,	6	; 19)	GR	A	101.831 05	0.4	1456
* 4113	R	(1,	10	; 10)	GR	←	(1,	8	; 9)	GR	A	101.850 40	2.2	2704
* 4114	R	(0,	−8	; 38)	GR	←	(0,	−7	; 37)	GR	E	101.884 99	−0.3	3181
* 4115	R	(0,	8	; 31)	GR	←	(0,	7	; 30)	GR	A	101.915 62	0.1	8127
* 4116	R	(1,	−1	; 15)	GR	←	(1,	0	; 14)	GR	E	101.968 67	0.4	9220
* 4117	R	(2,	−2	; 15)	GR	←	(2,	−1	; 14)	GR	E	101.986 13	−0.5	5874
* 4118	R	(1,	2	; 17)	GR	←	(1,	1	; 16)	GR	E	102.109 73	0.3	9425
* 4119	P	(2,	−1	; 8)	GR	←	(1,	−2	; 9)	GR	E	102.116 87	−1.4	5533
* 4120	P	(1,	8	; 16)	GR	←	(0,	9	; 17)	GR	E	102.144 47	−2.2	2718
* 4121	R	(0,	−11	; 19)	GR	←	(0,	−10	; 18)	GR	E	102.146 41	0.4	8912
* 4122	R	(0,	10	; 26)	GR	←	(0,	9	; 25)	GR	A	102.182 23	0.1	8910
* 4123	Q	(1,	7	; 28)	GR	←	(1,	4	; 28)	GR	A	102.203 91	1.3	1067
* 4124	R	(1,	−4	; 28)	GR	←	(1,	−3	; 27)	GR	E	102.233 25	0.3	4951
* 4125	R	(0,	11	; 14)	GR	←	(0,	10	; 13)	GR	E	102.234 98	1.3	7206
* 4126	R	(1,	10	; 11)	GR	←	(1,	9	; 10)	GR	A	102.239 33	−0.9	4200
* 4127	P	(2,	4	; 30)	GR	←	(1,	3 $^-$	; 31)	GR	A	102.241 45	−0.8	1747
* 4128	P	(2,	4	; 30)	GR	←	(1,	3 $^+$	; 31)	GR	A	102.251 23	−1.6	1165
* 4129	P	(2,	3	; 12)	GR	←	(1,	4	; 13)	GR	A	102.286 07	−0.4	7281
* 4130	R	(0,	−9	; 29)	GR	←	(0,	−8	; 28)	GR	E	102.291 20	−1.5	7341
* 4131	P	(1,	9	; 12)	GR	←	(0,	10	; 13)	GR	A	102.318 15	0.1	4368
* 4132	Q	(1,	7	; 27)	GR	←	(1,	4	; 27)	GR	A	102.406 04	0.2	1067
* 4133	R	(1,	3 $^-$	; 22)	GR	←	(1,	2 $^-$	; 21)	GR	A	102.434 56	−0.1	8541
* 4134	R	(0,	9	; 22)	GR	←	(0,	8	; 21)	GR	A	102.441 36	1.1	9578
* 4135	R	(1,	3 $^+$	; 22)	GR	←	(1,	2 $^+$	; 21)	GR	A	102.480 58	−1.0	9108
* 4136	P	(2,	−4	; 21)	GR	←	(1,	−5	; 22)	GR	E	102.505 89	−0.9	2233
* 4137	R	(0,	−7	; 34)	GR	←	(0,	−6	; 33)	GR	E	102.580 89	0.5	5069
* 4138	P	(1,	6	; 6)	GR	←	(1,	5	; 7)	GR	E	102.584 69	−0.8	2500
* 4139	Q	(1,	7	; 26)	GR	←	(1,	4	; 26)	GR	A	102.594 49	0.5	1844
* 4140	R	(0,	11	; 24)	GR	←	(0,	10	; 23)	GR	A	102.602 68	0.9	9043
* 4141	R	(1,	4	; 27)	GR	←	(1,	3 $^-$	; 26)	GR	A	102.650 22	0.1	3274
* 4142	R	(1,	4	; 27)	GR	←	(1,	3 $^+$	; 26)	GR	A	102.654 08	1.3	3260
* 4143	P	(1,	6	; 30)	GR	←	(0,	7	; 31)	GR	A	102.731 98	−1.7	1067
* 4144	Q	(1,	7	; 25)	GR	←	(1,	4	; 25)	GR	A	102.768 68	−1.4	1747
* 4145	P	(1,	−7	; 22)	GR	←	(0,	−8	; 23)	GR	E	102.776 00	−0.8	2135
* 4146	P	(2,	3	; 31)	GR	←	(1,	2	; 32)	GR	E	102.803 77	0.3	1456
* 4147	P	(1,	10	; 24)	GR	←	(0,	11	; 25)	GR	A	102.810 37	−2.3	485
* 4148	R	(0,	7	; 34)	GR	←	(0,	6	; 33)	GR	E	102.861 72	0.3	5632
* 4149	R	(0,	9	; 33)	GR	←	(0,	8	; 32)	GR	E	102.865 37	0.5	5192
* 4150	R	(0,	10	; 27)	GR	←	(0,	9	; 26)	GR	E	102.893 32	0.2	7855
* 4151	Q	(1,	7	; 24)	GR	←	(1,	4	; 24)	GR	A	102.929 80	0.0	1553
* 4152	R	(0,	−6	; 37)	GR	←	(0,	−5	; 36)	GR	E	102.959 23	−0.6	4047
* 4153	P	(2,	4	; 19)	GR	←	(1,	5	; 20)	GR	A	103.024 50	0.9	2233
* 4154	R	(0,	−10	; 18)	GR	←	(0,	−9	; 17)	GR	E	103.027 17	−0.6	9342
* 4155	Q	(1,	7	; 23)	GR	←	(1,	4	; 23)	GR	A	103.076 84	0.3	1359
* 4156	Q	(1,	7	; 22)	GR	←	(1,	4	; 22)	GR	A	103.210 82	0.9	1359
* 4157	R	(0,	8	; 28)	GR	←	(0,	7	; 27)	GR	E	103.328 36	0.1	8021
* 4158	Q	(1,	7	; 21)	GR	←	(1,	4	; 21)	GR	A	103.331 34	−0.1	2912
* 4159	P	(2,	3	; 17)	GR	←	(1,	6	; 18)	GR	A	103.336 78	−1.0	776
* 4160	R	(0,	−8	; 39)	GR	←	(0,	−7	; 38)	GR	E	103.400 06	0.0	2921
* 4161	R	(1,	10	; 11)	GR	←	(1,	8	; 10)	GR	A	103.425 57	−1.2	2957
* 4162	Q	(1,	7	; 20)	GR	←	(1,	4	; 20)	GR	A	103.439 61	3.0	970
* 4163	R	(0,	8	; 32)	GR	←	(0,	7	; 31)	GR	A	103.482 53	−0.6	7712
* 4164	Q	(1,	7	; 19)	GR	←	(1,	4	; 19)	GR	A	103.535 23	1.5	1844
* 4165	R	(0,	12	; 13)	GR	←	(0,	11	; 12)	GR	E	103.537 80	0.5	9397
* 4166	R	(2,	−2	; 16)	GR	←	(2,	−1	; 15)	GR	E	103.547 69	1.5	6713
* 4167	R	(1,	−1	; 16)	GR	←	(1,	0	; 15)	GR	E	103.549 18	1.4	9206
* 4168	R	(0,	12	; 12)	GR	←	(0,	11	; 11)	GR	A	103.554 46	−1.6	9885
* 4169	Q	(1,	7	; 18)	GR	←	(1,	4	; 18)	GR	A	103.619 22	−1.3	1262
* 4170	R	(1,	2	; 18)	GR	←	(1,	1	; 17)	GR	E	103.691 99	0.4	9483
4171	Q	(1,	7	; 17)	GR	←	(1,	4	; 17)	GR	A	103.691 90	−8.9	6213
* 4172	P	(2,	−1	; 7)	GR	←	(1,	−2	; 8)	GR	E	103.695 37	−0.4	5631
* 4173	R	(0,	−11	; 20)	GR	←	(0,	−10	; 19)	GR	E	103.699 70	1.9	9045
* 4174	R	(0,	10	; 27)	GR	←	(0,	9	; 26)	GR	A	103.715 55	0.5	8707
* 4175	P	(1,	8	; 15)	GR	←	(0,	9	; 16)	GR	E	103.745 15	−0.4	2912
* 4176	Q	(1,	7	; 16)	GR	←	(1,	4	; 16)	GR	A	103.755 81	−1.8	1262
* 4177	R	(1,	10	; 12)	GR	←	(1,	9	; 11)	GR	A	103.791 86	1.1	9845
* 4178	R	(0,	11	; 15)	GR	←	(0,	10	; 14)	GR	E	103.800 77	0.3	9232
* 4179	Q	(1,	7	; 15)	GR	←	(1,	4	; 15)	GR	A	103.810 16	2.4	970
* 4180	R	(0,	−9	; 30)	GR	←	(0,	−8	; 29)	GR	E	103.853 30	1.4	6778
* 4181	P	(2,	4	; 29)	GR	←	(1,	3 $^-$	; 30)	GR	A	103.890 90	−0.2	1844
* 4182	P	(2,	3	; 11)	GR	←	(1,	4	; 12)	GR	A	103.896 88	−0.1	7184
* 4183	P	(2,	4	; 29)	GR	←	(1,	3 $^+$	; 30)	GR	A	103.899 16	−0.6	2330
* 4184	R	(1,	−4	; 29)	GR	←	(1,	−3	; 28)	GR	E	103.902 72	−0.4	6136
4185	P	(1,	9	; 11)	GR	←	(0,	10	; 12)	GR	A	103.920 43	−3.3	7572
* 4186	R	(0,	9	; 23)	GR	←	(0,	8	; 22)	GR	A	103.997 92	0.3	9508
* 4187	R	(1,	3 $^-$	; 23)	GR	←	(1,	2 $^-$	; 22)	GR	A	104.028 95	−0.2	8473
* 4188	R	(0,	−7	; 35)	GR	←	(0,	−6	; 34)	GR	E	104.079 01	−0.3	5137
* 4189	R	(1,	3 $^+$	; 23)	GR	←	(1,	2 $^+$	; 22)	GR	A	104.084 04	0.6	8268
* 4190	R	(0,	11	; 25)	GR	←	(0,	10	; 24)	GR	A	104.147 86	−0.4	9042
* 4191	P	(2,	−4	; 20)	GR	←	(1,	−5	; 21)	GR	E	104.157 35	−2.0	2912
* 4192	R	(1,	4	; 28)	GR	←	(1,	3 $^-$	; 27)	GR	A	104.360 27	−0.5	3049
* 4193	R	(1,	4	; 28)	GR	←	(1,	3 $^+$	; 27)	GR	A	104.365 02	2.0	2939
* 4194	R	(0,	7	; 35)	GR	←	(0,	6	; 34)	GR	E	104.419 53	0.6	4851
* 4195	P	(1,	10	; 23)	GR	←	(0,	11	; 24)	GR	A	104.425 96	−1.6	1067
* 4196	R	(0,	10	; 28)	GR	←	(0,	9	; 27)	GR	E	104.445 61	0.1	7096
4197	P	(2,	3	; 30)	GR	←	(1,	2	; 31)	GR	E	104.451 21	7.4	2233
* 4198	P	(1,	−7	; 21)	GR	←	(0,	−8	; 22)	GR	E	104.469 53	−0.2	3398
* 4199	R	(0,	−6	; 38)	GR	←	(0,	−5	; 37)	GR	E	104.473 11	−0.2	4398
* 4200	R	(0,	−10	; 19)	GR	←	(0,	−9	; 18)	GR	E	104.590 50	0.1	9475



Index	upper state				lower state				σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
	T	$(n,$	K	$; J)^{\upsilon}$		$(n,$	K	$; J)^{\upsilon}$				
* 4201	P	(2,	4	; 18) GR	←	(1,	5	; 19) GR	A	104.602 39	−0.6	2718
* 4202	P	(1,	6	; 29) GR	←	(0,	7	; 30) GR	A	104.621 96	0.8	0
* 4203	P	(2,	3	; 16) GR	←	(1,	6	; 17) GR	A	104.853 71	−1.8	873
* 4204	R	(0,	8	; 29) GR	←	(0,	7	; 28) GR	E	104.863 24	0.0	7197
* 4205	R	(0,	−8	; 40) GR	←	(0,	−7	; 39) GR	E	104.912 69	0.0	2431
* 4206	R	(1,	10	; 12) GR	←	(1,	8	; 11) GR	A	105.001 90	0.6	3642
* 4207	R	(0,	8	; 33) GR	←	(0,	7	; 32) GR	A	105.050 05	0.4	7332
* 4208	R	(0,	12	; 14) GR	←	(0,	11	; 13) GR	A	105.101 75	−0.4	9574
* 4209	R	(2,	−2	; 17) GR	←	(2,	−1	; 16) GR	E	105.107 79	0.4	5521
* 4210	R	(0,	12	; 13) GR	←	(0,	11	; 12) GR	A	105.120 13	1.1	9910
* 4211	R	(1,	−1	; 17) GR	←	(1,	0	; 16) GR	E	105.131 58	0.8	9193
* 4212	R	(0,	10	; 28) GR	←	(0,	9	; 27) GR	A	105.245 42	0.2	8324
* 4213	R	(0,	−11	; 21) GR	←	(0,	−10	; 20) GR	E	105.250 98	−1.2	8708
* 4214	P	(2,	−1	; 6) GR	←	(1,	−2	; 7) GR	E	105.273 67	0.0	5825
* 4215	R	(1,	2	; 19) GR	←	(1,	1	; 18) GR	E	105.276 67	0.0	9345
* 4216	R	(1,	10	; 13) GR	←	(1,	9	; 12) GR	A	105.343 85	0.0	9736
* 4217	P	(1,	8	; 14) GR	←	(0,	9	; 15) GR	E	105.347 87	−0.1	3106
* 4218	R	(0,	11	; 16) GR	←	(0,	10	; 15) GR	E	105.366 09	0.3	9310
* 4219	R	(0,	−9	; 31) GR	←	(0,	−8	; 30) GR	E	105.415 58	1.9	6337
* 4220	P	(2,	3	; 10) GR	←	(1,	4	; 11) GR	A	105.501 03	−0.6	7184
* 4221	P	(1,	9	; 10) GR	←	(0,	10	; 11) GR	A	105.520 56	−0.2	4951
* 4222	P	(2,	4	; 28) GR	←	(1,	3 −	; 29) GR	A	105.536 06	−0.1	2038
* 4223	P	(2,	4 +	; 28) GR	←	(1,	3 −	; 29) GR	A	105.536 06	−0.5	2038
* 4224	P	(1,	4	; 31) GR	←	(0,	5	; 32) GR	E	105.540 39	3.5	1359
* 4225	P	(2,	4 −	; 28) GR	←	(1,	3 +	; 29) GR	A	105.542 66	0.0	1456
* 4226	P	(2,	4	; 28) GR	←	(1,	3 +	; 29) GR	A	105.542 66	−1.6	1456
* 4227	R	(0,	9	; 24) GR	←	(0,	8	; 23) GR	A	105.552 88	−0.3	9497
* 4228	R	(0,	−7	; 36) GR	←	(0,	−6	; 35) GR	E	105.571 25	0.8	4510
* 4229	R	(1,	−4	; 30) GR	←	(1,	−3	; 29) GR	E	105.583 00	1.4	5943
* 4230	R	(1,	3 −	; 24) GR	←	(1,	2 −	; 23) GR	A	105.627 06	0.2	8272
* 4231	R	(0,	11	; 26) GR	←	(0,	10	; 25) GR	A	105.690 71	2.0	9025
* 4232	R	(1,	3 +	; 24) GR	←	(1,	2 +	; 23) GR	A	105.692 48	0.6	8517
* 4233	P	(2,	−4	; 19) GR	←	(1,	−5	; 20) GR	E	105.801 87	−0.6	3106
* 4234	R	(1,	−5	; 5) GR	←	(1,	−4	; 4) GR	E	105.821 89	−0.8	5533
* 4235	Q	(1,	−8	; 8) GR	←	(1,	−7	; 8) GR	E	105.863 59	0.1	5436
* 4236	Q	(1,	−8	; 9) GR	←	(1,	−7	; 9) GR	E	105.863 59	−2.3	5436
* 4237	Q	(1,	−8	; 10) GR	←	(1,	−7	; 10) GR	E	105.865 70	0.2	4854
* 4238	Q	(1,	−8	; 11) GR	←	(1,	−7	; 11) GR	E	105.868 83	−1.0	5048
* 4239	Q	(1,	−8	; 12) GR	←	(1,	−7	; 12) GR	E	105.874 38	−1.1	5242
* 4240	Q	(1,	−8	; 13) GR	←	(1,	−7	; 13) GR	E	105.882 57	−0.3	5631
* 4241	Q	(1,	−8	; 14) GR	←	(1,	−7	; 14) GR	E	105.893 72	−0.5	5825
* 4242	Q	(1,	−8	; 15) GR	←	(1,	−7	; 15) GR	E	105.908 51	−0.1	5242
* 4243	Q	(1,	−8	; 16) GR	←	(1,	−7	; 16) GR	E	105.927 55	0.2	5048
* 4244	Q	(1,	−8	; 17) GR	←	(1,	−7	; 17) GR	E	105.951 15	−0.4	5728
* 4245	R	(0,	7	; 36) GR	←	(0,	6	; 35) GR	E	105.976 70	0.3	4695
* 4246	Q	(1,	−8	; 18) GR	←	(1,	−7	; 18) GR	E	105.980 18	−0.6	5533
* 4247	R	(0,	−6	; 39) GR	←	(0,	−5	; 38) GR	E	105.982 59	0.9	3644
* 4248	R	(0,	10	; 29) GR	←	(0,	9	; 28) GR	E	105.997 14	0.3	7084
* 4249	Q	(1,	−8	; 19) GR	←	(1,	−7	; 19) GR	E	106.015 24	−0.1	5048
* 4250	P	(1,	10	; 22) GR	←	(0,	11	; 23) GR	A	106.043 07	2.2	970
* 4251	Q	(1,	−8	; 20) GR	←	(1,	−7	; 20) GR	E	106.056 85	0.2	4757
* 4252	R	(1,	4	; 29) GR	←	(1,	3 −	; 28) GR	A	106.078 93	0.9	2919
* 4253	R	(1,	4	; 29) GR	←	(1,	3 +	; 28) GR	A	106.084 49	0.2	2723
* 4254	P	(2,	3	; 29) GR	←	(1,	2	; 30) GR	E	106.093 15	−0.4	1456
* 4255	Q	(1,	−8	; 21) GR	←	(1,	−7	; 21) GR	E	106.105 71	0.5	4660
* 4256	R	(0,	−10	; 20) GR	←	(0,	−9	; 19) GR	E	106.152 75	0.2	9385
4257	P	(1,	−7	; 20) GR	←	(0,	−8	; 21) GR	E	106.154 70	5.4	1650
* 4258	Q	(1,	−8	; 22) GR	←	(1,	−7	; 22) GR	E	106.162 55	−0.1	4174
* 4259	P	(2,	4	; 17) GR	←	(1,	5	; 18) GR	A	106.186 58	0.4	4770
* 4260	Q	(1,	−8	; 23) GR	←	(1,	−7	; 23) GR	E	106.227 78	0.1	4466
* 4261	Q	(1,	−8	; 24) GR	←	(1,	−7	; 24) GR	E	106.302 31	−0.4	3980
* 4262	P	(3,	−3	; 30) GR	←	(2,	−4	; 31) GR	E	106.323 55	−0.3	776
* 4263	P	(2,	3	; 15) GR	←	(1,	6	; 16) GR	A	106.380 53	−2.0	873
* 4264	Q	(1,	−8	; 25) GR	←	(1,	−7	; 25) GR	E	106.386 59	−0.4	3495
* 4265	R	(0,	8	; 30) GR	←	(0,	7	; 29) GR	E	106.394 53	−0.2	7097
* 4266	Q	(1,	−8	; 26) GR	←	(1,	−7	; 26) GR	E	106.481 44	−0.1	3495
* 4267	P	(1,	6	; 28) GR	←	(0,	7	; 29) GR	A	106.495 07	−1.1	1165
* 4268	R	(1,	10	; 13) GR	←	(1,	8	; 12) GR	A	106.579 02	1.2	5104
* 4269	Q	(1,	−8	; 27) GR	←	(1,	−7	; 27) GR	E	106.587 22	−0.9	3398
* 4270	R	(0,	8	; 34) GR	←	(0,	7	; 33) GR	A	106.618 31	1.8	6642
* 4271	R	(0,	12	; 15) GR	←	(0,	11	; 14) GR	E	106.664 57	0.4	9352
* 4272	R	(2,	−2	; 18) GR	←	(2,	−1	; 17) GR	E	106.666 95	1.1	5452
* 4273	R	(0,	12	; 14) GR	←	(0,	11	; 13) GR	A	106.685 30	0.7	9655
* 4274	Q	(1,	−8	; 28) GR	←	(1,	−7	; 28) GR	E	106.704 62	−1.0	2524
* 4275	R	(1,	−1	; 18) GR	←	(1,	0	; 17) GR	E	106.716 40	0.6	9014
* 4276	R	(0,	10	; 29) GR	←	(0,	9	; 28) GR	A	106.771 73	−0.3	7946
* 4277	R	(0,	−11	; 22) GR	←	(0,	−10	; 21) GR	E	106.800 00	0.1	8365
* 4278	Q	(1,	−8	; 29) GR	←	(1,	−7	; 29) GR	E	106.834 21	0.1	2621
* 4279	P	(2,	−1	; 5) GR	←	(1,	−2	; 6) GR	E	106.851 34	−0.6	5533
* 4280	R	(1,	2	; 20) GR	←	(1,	1	; 19) GR	E	106.864 31	0.5	9234
* 4281	R	(1,	10	; 14) GR	←	(1,	9	; 13) GR	A	106.895 74	0.4	9633
* 4282	R	(0,	11	; 17) GR	←	(0,	10	; 16) GR	E	106.930 86	0.4	9487
* 4283	P	(1,	8	; 13) GR	←	(0,	9	; 14) GR	E	106.951 93	−1.1	4077
* 4284	Q	(1,	−8	; 30) GR	←	(1,	−7	; 30) GR	E	106.976 45	−1.5	1650
* 4285	R	(0,	−9	; 32) GR	←	(0,	−8	; 31) GR	E	106.978 25	2.3	5683
* 4286	R	(0,	−7	; 37) GR	←	(0,	−6	; 36) GR	E	107.057 34	−1.1	3394
* 4287	P	(2,	3	; 9) GR	←	(1,	4	; 10) GR	A	107.099 47	−1.5	7184
* 4288	R	(0,	9	; 25) GR	←	(0,	8	; 24) GR	A	107.106 34	0.0	9541
* 4289	P	(1,	9	; 9) GR	←	(0,	10	; 10) GR	A	107.117 66	−1.1	4563
* 4290	Q	(1,	−8	; 31) GR	←	(1,	−7	; 31) GR	E	107.131 95	−2.3	2233
4291	P	(1,	−3	; 33) GR	←	(0,	−4	; 34) GR	E	107.141 92	−1.0	1165
* 4292	P	(2,	4 +	; 27) GR	←	(1,	3 −	; 28) GR	A	107.176 18	−1.9	2330
* 4293	P	(2,	4	; 27) GR	←	(1,	3 −	; 28) GR	A	107.176 18	−2.5	2330
* 4294	P	(2,	4	; 27) GR	←	(1,	3 +	; 28) GR	A	107.182 15	1.0	1553
* 4295	P	(2,	4 −	; 27) GR	←	(1,	3 +	; 28) GR	A	107.182 15	−0.1	1553
* 4296	R	(1,	3 −	; 25) GR	←	(1,	2 −	; 24) GR	A	107.229 43	0.6	8500
* 4297	R	(0,	11	; 27) GR	←	(0,	10	; 26) GR	A	107.231 96	−1.4	8414
* 4298	P	(1,	4	; 30) GR	←	(0,	5	; 31) GR	E	107.240 22	−0.2	1165
* 4299	R	(1,	−4	; 31) GR	←	(1,	−3	; 30) GR	E	107.274 30	1.3	4765
* 4300	Q	(1,	−8	; 32) GR	←	(1,	−7	; 32) GR	E	107.301 24	−0.2	1650
* 4301	R	(1,	3 +	; 25) GR	←	(1,	2 +	; 24) GR	A	107.306 37	0.5	8140
* 4302	R	(1,	−5	; 6) GR	←	(1,	−4	; 5) GR	E	107.392 07	−0.7	6116
* 4303	P	(2,	−4	; 18) GR	←	(1,	−5	; 19) GR	E	107.439 50	−1.4	3883
* 4304	Q	(1,	−8	; 33) GR	←	(1,	−7	; 33) GR	E	107.484 75	2.4	2135
* 4305	R	(0,	−6	; 40) GR	←	(0,	−5	; 39) GR	E	107.487 88	0.0	3015
* 4306	R	(0,	14	; 14) GR	←	(0,	13	; 13) GR	A	107.495 16	−1.3	9325
* 4307	R	(0,	7	; 37) GR	←	(0,	6	; 36) GR	E	107.533 26	0.0	4416
* 4308	R	(0,	10	; 30) GR	←	(0,	9	; 29) GR	E	107.548 12	1.6	6311
* 4309	P	(1,	10	; 21) GR	←	(0,	11	; 22) GR	A	107.660 34	−1.6	2330
* 4310	Q	(1,	−8	; 34) GR	←	(1,	−7	; 34) GR	E	107.681 79	1.1	1165
* 4311	R	(0,	−10	; 21) GR	←	(0,	−9	; 20) GR	E	107.714 17	0.2	8949
* 4312	P	(2,	3	; 28) GR	←	(1,	2	; 29) GR	E	107.731 82	1.4	1747
* 4313	P	(2,	4	; 16) GR	←	(1,	5	; 17) GR	A	107.753 53	0.1	2330
* 4314	P	(1,	−7	; 19) GR	←	(0,	−8	; 20) GR	E	107.830 25	−0.1	2135
* 4315	Q	(1,	−8	; 35) GR	←	(1,	−7	; 35) GR	E	107.894 46	−1.7	1262
* 4316	P	(3,	−3	; 29) GR	←	(2,	−4	; 30) GR	E	107.913 35	−2.1	1456
4317	P	(2,	3	; 14) GR	←	(1,	6	; 15) GR	A	107.917 52	7.6	1067
* 4318	R	(0,	8	; 31) GR	←	(0,	7	; 30) GR	E	107.922 08	0.3	7279
* 4319	R	(1,	10	; 14) GR	←	(1,	8	; 13) GR	A	108.156 91	0.8	4414
* 4320	R	(0,	8	; 35) GR	←	(0,	7	; 34) GR	A	108.187 33	2.0	6313
4321	R	(2,	−2	; 19) GR	←	(2,	−1	; 18) GR	E	108.225 75	7.6	9149
* 4322	R	(0,	12	; 16) GR	←	(0,	11	; 15) GR	E	108.225 75	−0.5	9149
* 4323	R	(0,	12	; 15) GR	←	(0,	11	; 14) GR	A	108.250 02	1.1	9526
* 4324	R	(0,	10	; 30) GR	←	(0,	9	; 29) GR	A	108.294 23	0.0	7734
* 4325	R	(1,	−1	; 19) GR	←	(1,	0	; 18) GR	E	108.303 96	0.9	9173
* 4326	R	(0,	−11	; 23) GR	←	(0,	−10	; 22) GR	E	108.346 73	0.1	8597
* 4327	P	(1,	6	; 27) GR	←	(0,	7	; 28) GR	A	108.351 71	−2.7	2233
* 4328	P	(2,	−1	; 4) GR	←	(1,	−2	; 5) GR	E	108.428 28	−1.1	5922
* 4329	R	(1,	10	; 15) GR	←	(1,	9	; 14) GR	A	108.447 73	1.0	9552
* 4330	R	(1,	2	; 21) GR	←	(1,	1	; 20) GR	E	108.455 08	0.5	8891
* 4331	P	(2,	−5	; 30) GR	←	(1,	−4	; 31) GR	E	108.488 60	2.8	970
* 4332	R	(0,	11	; 18) GR	←	(0,	10	; 17) GR	E	108.495 14	0.2	9340
* 4333	R	(0,	−7	; 38) GR	←	(0,	−6	; 37) GR	E	108.537 08	−0.7	3471
* 4334	R	(0,	−9	; 33) GR	←	(0,	−8	; 32) GR	E	108.541 30	0.7	5233
* 4335	P	(1,	8	; 12) GR	←	(0,	9	; 13) GR	E	108.557 27	−0.6	3300
* 4336	P	(1,	5	; 29) GR	←	(0,	6	; 30) GR	A	108.637 96	−0.1	1650
* 4337	R	(0,	9	; 26) GR	←	(0,	8	; 25) GR	A	108.657 80	−1.1	6407
* 4338	P	(2,	3	; 8) GR	←	(1,	4	; 9) GR	A	108.692 70	−1.6	7184
* 4339	R	(0,	11	; 28) GR	←	(0,	10	; 27) GR	A	108.771 31	1.2	8479
* 4340	P	(2,	4	; 26) GR	←	(1,	3 −	; 27) GR	A	108.812 67	−0.6	1844
* 4341	P	(2,	4 +	; 26) GR	←	(1,	3 −	; 27) GR	A	108.812 67	−0.7	1844
* 4342	P	(2,	4 −	; 26) GR	←	(1,	3 +	; 27) GR	A	108.817 14	0.1	2038
* 4343	P	(2,	4	; 26) GR	←	(1,	3 +	; 27) GR	A	108.817 14	−0.9	2038
* 4344	R	(1,	3 −	; 26) GR	←	(1,	2 −	; 25) GR	A	108.836 28	0.3	7599
4345	P	(1,	−3	; 32) GR	←	(0,	−4	; 33) GR	E	108.871 98	−2.6	1165
* 4346	R	(1,	3 +	; 26) GR	←	(1,	2 +	; 25) GR	A	108.926 22	0.2	7976
* 4347	P	(1,	4	; 29) GR	←	(0,	5	; 30) GR	E	108.935 95	1.2	1359
* 4348	R	(1,	−5	; 7) GR	←	(1,	−4	; 6) GR	E	108.962 26	−1.4	5728
* 4349	R	(1,	−4	; 32) GR	←	(1,	−3	; 31) GR	E	108.977 31	−0.2	4520
* 4350	R	(0,	−6	; 41) GR	←	(0,	−5	; 40) GR	E	108.988 13	0.0	3619



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 4351	R (0, 14 ; 15) GR	←	(0, 13 ; 14) GR	A	109.050 29	0.4	9226
* 4352	P (2, −4 ; 17) GR	←	(1, −5 ; 18) GR		109.070 82	−0.4	3592
* 4353	R (0, 7 ; 38) GR	←	(0, 6 ; 37) GR		109.089 29	0.0	3586
* 4354	R (0, 10 ; 31) GR	←	(0, 9 ; 30) GR		109.098 51	0.4	5553
G 4355	R (0, −10 ; 22) GR	←	(0, −9 ; 21) GR		109.274 58	1.5	9044
* 4356	P (1, 10 ; 20) GR	←	(0, 11 ; 21) GR	A	109.278 77	−0.4	1844
* 4357	P (2, 4 ; 15) GR	←	(1, 5 ; 16) GR	A	109.334 63	−0.9	2912
* 4358	P (2, 3 ; 27) GR	←	(1, 2 ; 28) GR		109.366 23	−1.1	2233
* 4359	Q (1, 6 ; 32) GR	←	(1, 5 ; 32) GR		109.421 52	−1.4	1262
* 4360	R (0, 8 ; 32) GR	←	(0, 7 ; 31) GR		109.445 62	1.7	6312
* 4361	P (2, 3 ; 13) GR	←	(1, 6 ; 14) GR	A	109.460 83	0.6	582
* 4362	P (1, −7 ; 18) GR	←	(0, −8 ; 19) GR		109.498 15	−1.2	2524
* 4363	P (3, −3 ; 28) GR	←	(2, −4 ; 29) GR		109.502 99	1.0	1359
* 4364	R (1, 10 ; 15) GR	←	(1, 8 ; 14) GR	A	109.735 83	1.0	4557
* 4365	R (0, 8 ; 36) GR	←	(0, 7 ; 35) GR	A	109.757 14	−0.6	5727
* 4366	R (2, −2 ; 20) GR	←	(2, −1 ; 19) GR		109.781 99	0.7	5060
* 4367	R (0, 12 ; 17) GR	←	(0, 11 ; 16) GR		109.786 02	−0.6	9208
* 4368	R (0, 10 ; 31) GR	←	(0, 9 ; 30) GR	A	109.812 97	2.1	3963
* 4369	R (0, 12 ; 16) GR	←	(0, 11 ; 15) GR	A	109.814 00	1.5	9528
* 4370	Q (1, 6 ; 31) GR	←	(1, 5 ; 31) GR		109.827 36	−0.7	1553
* 4371	R (0, −11 ; 24) GR	←	(0, −10 ; 23) GR		109.890 86	0.5	8186
* 4372	R (1, −1 ; 20) GR	←	(1, 0 ; 19) GR		109.894 30	0.4	8896
* 4373	R (1, 10 ; 16) GR	←	(1, 9 ; 15) GR	A	110.000 00	−0.1	6990
* 4374	P (2, −1 ; 3) GR	←	(1, −2 ; 4) GR		110.004 24	−0.1	5728
* 4375	R (0, −7 ; 39) GR	←	(0, −6 ; 38) GR		110.010 16	−0.9	970
* 4376	R (1, 2 ; 22) GR	←	(1, 1 ; 21) GR		110.049 29	−0.5	4854
* 4377	R (0, 11 ; 19) GR	←	(0, 10 ; 18) GR		110.058 80	0.0	5728
* 4378	R (0, −9 ; 34) GR	←	(0, −8 ; 33) GR		110.104 85	−1.4	2524
* 4379	P (1, 8 ; 11) GR	←	(0, 9 ; 12) GR		110.162 53	−0.7	3689
* 4380	P (2, −5 ; 29) GR	←	(1, −4 ; 30) GR		110.183 68	1.5	1262
* 4381	P (1, 6 ; 26) GR	←	(0, 7 ; 27) GR	A	110.192 10	−1.4	1650
* 4382	R (0, 9 ; 27) GR	←	(0, 8 ; 26) GR	A	110.207 53	−0.7	6796
* 4383	Q (1, 6 ; 30) GR	←	(1, 5 ; 30) GR		110.211 60	−0.1	2233
* 4384	P (2, 3 ; 7) GR	←	(1, 4 ; 8) GR	A	110.281 66	−0.4	7475
* 4385	R (0, 11 ; 29) GR	←	(0, 10 ; 28) GR	A	110.308 58	−0.3	4271
* 4386	P (1, 5 ; 28) GR	←	(0, 6 ; 29) GR	A	110.320 75	−1.7	2427
* 4387	P (2, 4 +; 25) GR	←	(1, 3 −; 26) GR	A	110.444 73	0.7	4660
* 4388	P (2, 4 ; 25) GR	←	(1, 3 −; 26) GR	A	110.444 73	0.2	4660
* 4389	R (1, 3 −; 27) GR	←	(1, 2 −; 26) GR	A	110.448 06	0.8	4660
* 4390	P (2, 4 −; 25) GR	←	(1, 3 +; 26) GR	A	110.448 06	−2.7	4660
* 4391	P (2, 4 ; 25) GR	←	(1, 3 +; 26) GR	A	110.448 06	−3.9	4660
* 4392	R (1, 9 ; 9) GR	←	(1, 8 ; 8) GR		110.463 13	−0.4	6699
* 4393	R (0, −6 ; 42) GR	←	(0, −5 ; 41) GR		110.483 11	0.0	3106
* 4394	R (1, −5 ; 8) GR	←	(1, −4 ; 7) GR		110.532 65	−0.2	6116
* 4395	R (1, 3 +; 27) GR	←	(1, 2 +; 26) GR	A	110.552 39	−1.1	4660
* 4396	Q (1, 6 ; 29) GR	←	(1, 5 ; 29) GR		110.573 51	0.3	2718
* 4397	P (1, −3 ; 31) GR	←	(0, −4 ; 32) GR		110.595 52	−1.7	1359
* 4398	R (0, 14 ; 16) GR	←	(0, 13 ; 15) GR	A	110.603 38	0.4	7475
* 4399	P (1, 4 ; 28) GR	←	(0, 5 ; 29) GR		110.626 95	0.0	1553
* 4400	R (0, 7 ; 39) GR	←	(0, 6 ; 38) GR		110.644 86	0.0	1067
* 4401	R (0, 10 ; 32) GR	←	(0, 9 ; 31) GR		110.648 51	0.4	2427
* 4402	R (1, −4 ; 33) GR	←	(1, −3 ; 32) GR		110.692 48	−1.4	1747
* 4403	P (2, −4 ; 16) GR	←	(1, −5 ; 17) GR		110.696 24	0.8	4077
* 4404	R (0, −10 ; 23) GR	←	(0, −9 ; 22) GR		110.833 81	−0.6	6310
* 4405	P (1, 10 ; 19) GR	←	(0, 11 ; 20) GR	A	110.897 29	−0.2	1941
* 4406	Q (1, 6 ; 28) GR	←	(1, 5 ; 28) GR		110.913 16	0.8	2718
* 4407	P (2, 4 ; 14) GR	←	(1, 5 ; 15) GR	A	110.915 16	−0.3	3106
* 4408	P (1, 11 ; 22) GR	←	(1, 10 ; 23) GR	A	110.924 99	−0.6	1165
* 4409	R (0, 8 ; 33) GR	←	(0, 7 ; 32) GR		110.965 00	−0.9	3203
* 4410	P (2, 3 ; 26) GR	←	(1, 2 ; 27) GR		110.997 54	−0.3	2524
* 4411	P (3, −3 ; 27) GR	←	(2, −4 ; 28) GR		111.091 51	−1.5	1165
* 4412	P (1, −7 ; 17) GR	←	(0, −8 ; 18) GR		111.158 47	−0.8	2718
* 4413	Q (1, 6 ; 27) GR	←	(1, 5 ; 27) GR		111.230 38	−0.8	2621
* 4414	R (1, 10 ; 16) GR	←	(1, 8 ; 15) GR	A	111.315 63	0.6	2135
* 4415	R (0, 10 ; 32) GR	←	(0, 9 ; 31) GR	A	111.327 26	1.9	3883
* 4416	R (0, 8 ; 37) GR	←	(0, 7 ; 36) GR	A	111.327 26	0.7	3883
* 4417	R (2, −2 ; 21) GR	←	(2, −1 ; 20) GR		111.337 47	−0.8	2330
* 4418	R (0, 12 ; 18) GR	←	(0, 11 ; 17) GR		111.344 56	−0.1	5631
* 4419	R (0, 12 ; 17) GR	←	(0, 11 ; 16) GR	A	111.377 85	0.3	7378
* 4420	R (0, −11 ; 25) GR	←	(0, −10 ; 24) GR		111.432 25	−0.7	4174
* 4421	R (0, −7 ; 40) GR	←	(0, −6 ; 39) GR		111.475 81	0.0	1165
* 4422	R (1, −1 ; 21) GR	←	(1, 0 ; 20) GR		111.487 88	−0.1	5533
* 4423	Q (1, 6 ; 26) GR	←	(1, 5 ; 26) GR		111.524 97	−0.6	3300
* 4424	R (1, 10 ; 17) GR	←	(1, 9 ; 16) GR	A	111.553 11	0.3	6310
* 4425	P (2, −1 ; 2) GR	←	(1, −2 ; 3) GR		111.579 01	0.4	5145

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int /a.u
* 4426	R (0, 11 ; 20) GR	←	(0, 10 ; 19) GR		111.621 90	−1.5	6116
* 4427	R (1, 2 ; 23) GR	←	(1, 1 ; 22) GR		111.647 51	−0.3	5145
* 4428	R (0, −9 ; 35) GR	←	(0, −8 ; 34) GR		111.669 55	0.6	3106
* 4429	R (0, 9 ; 28) GR	←	(0, 8 ; 27) GR	A	111.755 28	−1.1	5436
* 4430	P (1, 8 ; 10) GR	←	(0, 9 ; 11) R		111.767 65	0.6	3980
* 4431	Q (1, 6 ; 25) GR	←	(1, 5 ; 25) GR		111.796 85	−0.7	3689
* 4432	R (0, 11 ; 30) GR	←	(0, 10 ; 29) GR	A	111.843 78	−0.2	4174
* 4433	P (2, 3 ; 6) GR	←	(1, 4 ; 7) GR	A	111.866 68	−0.8	7669
* 4434	P (2, −5 ; 28) GR	←	(1, −4 ; 29) GR		111.871 01	−1.6	1165
* 4435	P (3, 4 ; 28) GR	←	(2, 5 ; 29) GR		111.877 22	−1.2	970
* 4436	P (1, 5 ; 27) GR	←	(0, 6 ; 28) GR	A	111.999 84	−1.5	2912
* 4437	P (1, 6 ; 25) GR	←	(0, 7 ; 26) GR	A	112.015 80	−0.5	1844
* 4438	R (1, 9 ; 10) GR	←	(1, 8 ; 9) GR		112.025 90	0.3	6699
* 4439	Q (1, 6 ; 24) GR	←	(1, 5 ; 24) GR		112.046 23	−0.3	4271
4440	P (2, 4 +; 24) GR	←	(1, 3 −; 25) GR	A	112.073 36	3.7	3592
* 4441	P (2, 4 ; 24) GR	←	(1, 3 −; 25) GR	A	112.073 36	3.5	3592
* 4442	P (2, 4 −; 24) GR	←	(1, 3 +; 25) GR	A	112.075 77	−1.0	2524
* 4443	P (2, 4 ; 24) GR	←	(1, 3 +; 25) GR	A	112.075 77	−1.4	2524
* 4444	R (1, −5 ; 9) GR	←	(1, −4 ; 8) GR		112.103 03	−1.0	6116
* 4445	R (0, 14 ; 17) GR	←	(0, 13 ; 16) GR	A	112.153 87	−0.3	5825
* 4446	R (1, 3 +; 28) GR	←	(1, 2 +; 27) GR	A	112.185 73	−0.2	3689
4447	R (0, 7 ; 40) GR	←	(0, 6 ; 39) GR		112.199 03	0.0	1941
* 4448	R (0, 10 ; 33) GR	←	(0, 9 ; 32) GR		112.199 03	−0.8	1941
* 4449	Q (1, 6 ; 23) GR	←	(1, 5 ; 23) GR		112.273 11	−0.2	4466
4450	P (1, −3 ; 30) GR	←	(0, −4 ; 31) GR		112.313 55	6.4	2330
* 4451	P (1, 4 ; 27) GR	←	(0, 5 ; 28) GR		112.313 55	−1.9	2330
* 4452	P (2, −4 ; 15) GR	←	(1, −5 ; 16) GR		112.316 10	0.5	4466
* 4453	R (0, −10 ; 24) GR	←	(0, −9 ; 23) GR		112.392 09	1.3	5631
* 4454	R (1, −4 ; 34) GR	←	(1, −3 ; 33) GR		112.421 13	1.5	1806
* 4455	Q (1, 6 ; 22) GR	←	(1, 5 ; 22) GR		112.477 91	−0.6	4660
* 4456	P (2, 4 ; 13) GR	←	(1, 5 ; 14) GR	A	112.495 49	−0.5	3398
* 4457	P (1, 11 ; 21) GR	←	(1, 10 ; 22) GR	A	112.503 67	0.3	2038
* 4458	P (1, 10 ; 18) GR	←	(0, 11 ; 19) GR	A	112.516 01	1.3	1553
* 4459	Q (1, 7 ; 7) GR	←	(1, 6 ; 7) GR	A	112.551 00	0.8	5048
* 4460	Q (1, 7 ; 8) GR	←	(1, 6 ; 8) GR	A	112.553 55	−1.3	6504
* 4461	Q (1, 7 ; 9) GR	←	(1, 6 ; 9) GR	A	112.558 61	−0.9	6990
* 4462	Q (1, 7 ; 10) GR	←	(1, 6 ; 10) GR	A	112.566 91	−0.9	6893
* 4463	Q (1, 7 ; 11) GR	←	(1, 6 ; 11) GR	A	112.579 12	−0.6	7475
* 4464	Q (1, 7 ; 12) GR	←	(1, 6 ; 12) GR	A	112.596 11	−0.4	7184
* 4465	R (2, −5 ; 10) GR	←	(1, −6 ; 9) GR		112.602 54	3.6	1456
* 4466	Q (1, 7 ; 13) GR	←	(1, 6 ; 13) GR	A	112.618 80	−1.4	7572
* 4467	P (2, 3 ; 25) GR	←	(1, 2 ; 26) GR		112.625 02	−0.7	2621
* 4468	Q (1, 7 ; 14) GR	←	(1, 6 ; 14) GR	A	112.648 14	0.1	7281
* 4469	Q (1, 6 ; 21) GR	←	(1, 5 ; 21) GR		112.661 13	−0.5	5339
* 4470	P (3, −3 ; 26) GR	←	(2, −4 ; 27) GR		112.680 30	2.3	1553
* 4471	Q (1, 7 ; 15) GR	←	(1, 6 ; 15) GR	A	112.685 10	−0.3	7378
* 4472	Q (1, 7 ; 16) GR	←	(1, 6 ; 16) GR	A	112.730 53	−0.3	6796
* 4473	Q (1, 7 ; 17) GR	←	(1, 6 ; 17) GR	A	112.785 49	−0.9	6893
* 4474	P (1, −7 ; 16) GR	←	(0, −8 ; 17) GR		112.811 48	−0.4	3009
* 4475	Q (1, 6 ; 20) GR	←	(1, 5 ; 20) GR		112.823 45	−1.1	5048
* 4476	R (0, 10 ; 33) GR	←	(0, 9 ; 32) GR	A	112.836 95	0.1	3106
* 4477	Q (1, 7 ; 18) GR	←	(1, 6 ; 18) GR	A	112.850 87	−0.2	7281
* 4478	R (2, −2 ; 22) GR	←	(2, −1 ; 21) GR		112.891 55	−1.3	2038
* 4479	R (1, 10 ; 17) GR	←	(1, 8 ; 16) GR	A	112.896 82	0.9	2233
* 4480	R (0, 8 ; 38) GR	←	(0, 7 ; 37) GR	A	112.899 38	−1.4	2233
* 4481	R (0, 12 ; 19) GR	←	(0, 11 ; 18) GR		112.901 47	0.0	5145
* 4482	Q (1, 7 ; 19) GR	←	(1, 6 ; 19) GR	A	112.927 58	0.0	6990
* 4483	R (0, −7 ; 41) GR	←	(0, −6 ; 40) GR		112.934 64	0.0	1262
* 4484	R (0, 12 ; 18) GR	←	(0, 11 ; 17) GR	A	112.941 19	1.3	7378
* 4485	Q (1, 6 ; 19) GR	←	(1, 5 ; 19) GR		112.965 72	0.0	5436
4486	P (2, −2 ; 29) GR	←	(1, −1 ; 30) GR		112.967 84	5.2	1359
* 4487	R (0, −11 ; 26) GR	←	(0, −10 ; 25) GR		112.970 83	0.8	3592
* 4488	Q (1, 7 ; 20) GR	←	(1, 6 ; 20) GR	A	113.016 33	−0.8	6407
* 4489	R (1, −1 ; 22) GR	←	(1, 0 ; 21) GR		113.085 12	−1.0	5631
* 4490	Q (1, 6 ; 18) GR	←	(1, 5 ; 18) GR		113.088 96	−0.9	6310
* 4491	R (1, 10 ; 18) GR	←	(1, 9 ; 17) GR	A	113.107 15	−0.3	6213
* 4492	Q (1, 7 ; 21) GR	←	(1, 6 ; 21) GR	A	113.118 03	−0.7	6504
* 4493	P (2, −1 ; 1) GR	←	(1, −2 ; 2) GR		113.152 44	−0.2	5339
* 4494	R (0, 11 ; 21) GR	←	(0, 10 ; 20) GR		113.184 52	1.1	5728
* 4495	Q (1, 6 ; 17) GR	←	(1, 5 ; 17) GR		113.194 17	−0.3	6019
* 4496	Q (1, 7 ; 22) GR	←	(1, 6 ; 22) GR	A	113.233 21	−1.3	6310
* 4497	R (0, −9 ; 36) GR	←	(0, −8 ; 35) GR		113.234 40	0.1	1529
* 4498	R (1, 2 ; 24) GR	←	(1, 1 ; 23) GR		113.250 03	−1.5	4854
* 4499	Q (1, 6 ; 16) GR	←	(1, 5 ; 16) GR		113.282 79	0.3	5728
* 4500	R (0, 9 ; 29) GR	←	(0, 8 ; 28) GR	A	113.300 93	−2.9	5242



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 4501	Q (1, 6 ; 15) GR	←	(1, 5 ; 15) GR	E	113.356 25	−0.3	6116
* 4502	Q (1, 7 ; 23) GR	←	(1, 6 ; 23) GR	A	113.362 52	0.1	6019
* 4503	P (1, 8 ; 9) GR	←	(0, 9 ; 10) GR	E	113.371 89	−0.7	3883
* 4504	R (0, 11 ; 31) GR	←	(0, 10 ; 30) GR	A	113.376 79	−1.4	3883
* 4505	Q (1, 6 ; 14) GR	←	(1, 5 ; 14) GR	E	113.416 00	−0.4	6699
* 4506	P (2, 3 ; 5) GR	←	(1, 4 ; 6) GR	A	113.448 56	−0.2	7378
* 4507	P (3, 4 ; 27) GR	←	(2, 5 ; 28) GR	E	113.460 89	−0.8	1941
* 4508	Q (1, 6 ; 13) GR	←	(1, 5 ; 13) GR	E	113.463 45	−0.6	6407
* 4509	Q (1, 6 ; 12) GR	←	(1, 5 ; 12) GR	E	113.500 54	1.7	6407
* 4510	R (0, 13 ; 13) GR	←	(0, 12 ; 12) GR	A	113.500 54	−5.5	6407
* 4511	Q (1, 7 ; 24) GR	←	(1, 6 ; 24) GR	A	113.506 30	−0.9	5922
* 4512	Q (1, 6 ; 11) GR	←	(1, 5 ; 11) GR	E	113.528 05	0.2	6699
* 4513	Q (1, 6 ; 10) GR	←	(1, 5 ; 10) GR	E	113.548 01	−0.7	5922
* 4514	P (2, −5 ; 27) GR	←	(1, −4 ; 28) GR	E	113.550 72	−2.0	1941
* 4515	Q (1, 6 ; 9) GR	←	(1, 5 ; 9) GR	E	113.561 60	−0.8	5533
* 4516	Q (1, 6 ; 8) GR	←	(1, 5 ; 8) GR	E	113.570 21	0.1	5825
* 4517	Q (1, 6 ; 7) GR	←	(1, 5 ; 7) GR	E	113.574 63	−2.1	5145
* 4518	Q (1, 6 ; 6) GR	←	(1, 5 ; 6) GR	E	113.576 67	0.4	3883
* 4519	R (1, 9 ; 11) GR	←	(1, 8 ; 10) GR	E	113.586 66	−2.0	6699
* 4520	Q (1, 7 ; 25) GR	←	(1, 6 ; 25) GR	A	113.665 12	0.4	5242
* 4521	R (1, −5 ; 10) GR	←	(1, −4 ; 9) GR	E	113.673 73	−1.0	5533
* 4522	P (1, 5 ; 26) GR	←	(0, 6 ; 27) GR	A	113.675 47	−0.4	0
* 4523	P (2, 4 ; 23) GR	←	(1, 3 − ; 24) GR	A	113.697 34	−0.2	2912
* 4524	P (2, 4 + ; 23) GR	←	(1, 3 − ; 24) GR	A	113.697 34	−0.2	2912
* 4525	P (2, 4 − ; 23) GR	←	(1, 3 + ; 24) GR	A	113.699 68	−0.2	2718
* 4526	P (2, 4 ; 23) GR	←	(1, 3 + ; 24) GR	A	113.699 68	−1.1	2718
* 4527	R (0, 14 ; 18) GR	←	(0, 13 ; 17) GR	A	113.702 04	−0.5	5533
* 4528	R (0, 10 ; 34) GR	←	(0, 9 ; 33) GR	E	113.756 38	0.8	1747
* 4529	P (1, 6 ; 24) GR	←	(0, 7 ; 25) GR	A	113.822 73	−1.5	2135
* 4530	R (1, 3 + ; 29) GR	←	(1, 2 + ; 28) GR	A	113.826 47	0.2	3300
* 4531	Q (1, 7 ; 26) GR	←	(1, 6 ; 26) GR	A	113.839 09	−0.9	5533
* 4532	P (2, −4 ; 14) GR	←	(1, −5 ; 15) GR	E	113.930 71	0.1	4466
* 4533	R (0, −10 ; 25) GR	←	(0, −9 ; 24) GR	E	113.949 18	−0.2	4854
* 4534	P (1, 4 ; 26) GR	←	(0, 5 ; 27) GR	E	113.996 05	−0.4	2038
* 4535	P (1, −3 ; 29) GR	←	(0, −4 ; 30) GR	E	114.023 81	0.6	1067
* 4536	Q (1, 7 ; 27) GR	←	(1, 6 ; 27) GR	A	114.028 56	−0.9	4951
* 4537	P (2, 4 ; 12) GR	←	(1, 5 ; 13) GR	A	114.075 66	−0.1	3300
* 4538	P (1, 11 ; 20) GR	←	(1, 10 ; 21) GR	A	114.080 63	−0.9	1262
* 4539	P (1, 10 ; 17) GR	←	(0, 11 ; 18) GR	A	114.133 85	−1.0	2038
* 4540	R (2, −5 ; 11) GR	←	(1, −6 ; 10) GR	E	114.155 87	−0.9	1262
* 4541	R (1, −4 ; 35) GR	←	(1, −3 ; 34) GR	E	114.162 68	0.1	1262
* 4542	Q (1, 7 ; 28) GR	←	(1, 6 ; 28) GR	A	114.233 59	−0.4	4660
* 4543	P (2, 3 ; 24) GR	←	(1, 2 ; 25) GR	E	114.249 04	−0.8	2912
* 4544	P (3, −3 ; 25) GR	←	(2, −4 ; 26) GR	E	114.268 11	−0.1	1844
* 4545	R (0, 10 ; 34) GR	←	(0, 9 ; 33) GR	A	114.341 86	0.4	2815
* 4546	P (2, −6 ; 30) GR	←	(2, −5 ; 31) GR	E	114.434 04	−0.3	776
* 4547	R (2, −2 ; 23) GR	←	(2, −1 ; 22) GR	E	114.444 38	0.1	2038
* 4548	Q (1, 7 ; 29) GR	←	(1, 6 ; 29) GR	A	114.454 35	0.8	4951
* 4549	R (0, 12 ; 20) GR	←	(0, 11 ; 19) GR	E	114.456 88	1.1	6116
4550	P (1, −7 ; 15) GR	←	(0, −8 ; 16) GR	E	114.456 88	−9.2	6116
* 4551	R (0, 8 ; 39) GR	←	(0, 7 ; 38) GR	A	114.474 71	0.0	1067
* 4552	R (1, 10 ; 18) GR	←	(1, 8 ; 17) GR	A	114.479 10	−1.3	1650
* 4553	R (0, 12 ; 19) GR	←	(0, 11 ; 18) GR	A	114.504 15	0.2	6990
* 4554	R (0, −11 ; 27) GR	←	(0, −10 ; 26) GR	E	114.506 61	−0.2	4077
* 4555	P (2, −2 ; 28) GR	←	(1, −1 ; 29) GR	E	114.602 98	−0.8	1844
* 4556	R (1, 10 ; 19) GR	←	(1, 9 ; 18) GR	A	114.662 53	0.1	5922
* 4557	R (1, −1 ; 23) GR	←	(1, 0 ; 22) GR	E	114.686 49	−0.5	5339
* 4558	Q (1, 7 ; 30) GR	←	(1, 6 ; 30) GR	A	114.690 68	0.0	3786
* 4559	R (0, 11 ; 22) GR	←	(0, 10 ; 21) GR	E	114.746 67	1.0	5533
* 4560	R (0, −9 ; 37) GR	←	(0, −8 ; 36) GR	E	114.800 36	0.1	1456
* 4561	R (0, 9 ; 30) GR	←	(0, 8 ; 29) GR	A	114.844 54	−1.3	4660
* 4562	R (1, 2 ; 25) GR	←	(1, 1 ; 24) GR	E	114.857 10	−0.8	4368
* 4563	R (0, 11 ; 32) GR	←	(0, 10 ; 31) GR	A	114.907 70	0.9	3592
* 4564	Q (1, 7 ; 31) GR	←	(1, 6 ; 31) GR	A	114.942 62	−0.3	3300
* 4565	P (1, 8 ; 8) GR	←	(0, 9 ; 9) GR	E	114.974 52	−0.7	4563
* 4566	P (2, 3 ; 4) GR	←	(1, 4 ; 5) GR	A	115.027 61	−0.7	7184
* 4567	P (3, 4 ; 26) GR	←	(2, 5 ; 27) GR	E	115.044 17	−1.6	1165
* 4568	R (0, 13 ; 14) GR	←	(0, 12 ; 13) GR	A	115.066 21	0.3	6310
* 4569	R (1, 9 ; 12) GR	←	(1, 8 ; 11) GR	E	115.144 92	−0.8	6796
* 4570	Q (1, 7 ; 32) GR	←	(1, 6 ; 32) GR	A	115.210 12	0.8	2912
* 4571	P (2, −5 ; 26) GR	←	(1, −4 ; 27) GR	E	115.223 37	−0.9	1359
* 4572	R (1, −5 ; 11) GR	←	(1, −4 ; 10) GR	E	115.244 87	0.3	6019
* 4573	R (0, 14 ; 19) GR	←	(0, 13 ; 18) GR	A	115.247 48	0.2	5728
* 4574	P (2, 4 + ; 22) GR	←	(1, 3 − ; 23) GR	A	115.318 13	2.0	3203
* 4575	P (2, 4 ; 22) GR	←	(1, 3 − ; 23) GR	A	115.318 13	−0.9	3203
* 4576	P (2, 4 − ; 22) GR	←	(1, 3 + ; 23) GR	A	115.319 99	0.6	3398
* 4577	P (2, 4 ; 22) GR	←	(1, 3 + ; 23) GR	A	115.319 99	−0.9	3398
* 4578	P (1, 5 ; 25) GR	←	(0, 6 ; 26) GR	A	115.347 37	−1.0	3009
* 4579	R (1, 3 + ; 30) GR	←	(1, 2 + ; 29) GR	A	115.475 09	−0.8	3009
* 4580	Q (1, 7 ; 33) GR	←	(1, 6 ; 33) GR	A	115.492 86	−2.6	3398
* 4581	R (0, −10 ; 26) GR	←	(0, −9 ; 25) GR	E	115.505 12	0.6	4563
* 4582	P (2, −4 ; 13) GR	←	(1, −5 ; 14) GR	E	115.540 59	−0.4	4563
* 4583	P (1, 6 ; 23) GR	←	(0, 7 ; 24) GR	A	115.613 27	−0.4	2524
* 4584	P (2, 4 ; 11) GR	←	(1, 5 ; 12) GR	A	115.655 92	1.2	4174
4585	P (1, 11 ; 19) GR	←	(1, 10 ; 20) GR	A	115.655 92	−5.9	4174
* 4586	P (1, 4 ; 25) GR	←	(0, 5 ; 26) GR	E	115.674 17	−0.6	2135
* 4587	R (2, −5 ; 12) GR	←	(1, −6 ; 11) GR	E	115.708 64	−0.1	1456
* 4588	P (1, −3 ; 28) GR	←	(0, −4 ; 29) GR	E	115.728 29	0.3	1844
* 4589	P (1, 10 ; 16) GR	←	(0, 11 ; 17) GR	A	115.751 23	−0.6	1941
* 4590	Q (1, 7 ; 34) GR	←	(1, 6 ; 34) GR	A	115.791 43	0.2	2135
* 4591	R (0, 10 ; 35) GR	←	(0, 9 ; 34) GR	A	115.842 20	0.3	2135
* 4592	P (3, −3 ; 24) GR	←	(2, −4 ; 25) GR	E	115.855 37	−1.1	2038
* 4593	P (2, 3 ; 23) GR	←	(1, 2 ; 24) GR	E	115.869 58	−1.3	4368
* 4594	R (1, −4 ; 36) GR	←	(1, −3 ; 35) GR	E	115.918 13	−0.4	970
* 4595	R (2, −2 ; 24) GR	←	(2, −1 ; 23) GR	E	115.995 62	−0.3	1941
* 4596	P (2, −6 ; 29) GR	←	(2, −5 ; 30) GR	E	116.007 70	1.1	1456
* 4597	R (0, 12 ; 21) GR	←	(0, 11 ; 20) GR	E	116.010 05	0.2	5436
* 4598	R (0, −11 ; 28) GR	←	(0, −10 ; 27) GR	E	116.039 08	−0.3	3495
* 4599	R (1, 10 ; 19) GR	←	(1, 8 ; 18) GR	A	116.063 12	−0.4	2038
* 4600	R (0, 12 ; 20) GR	←	(0, 11 ; 19) GR	A	116.066 86	0.9	6407
* 4601	P (1, −7 ; 14) GR	←	(0, −8 ; 15) GR	E	116.097 31	−0.7	3592
* 4602	Q (1, 7 ; 35) GR	←	(1, 6 ; 35) GR	A	116.105 09	−0.3	2135
* 4603	Q (2, −1 ; 18) GR	←	(1, −2 ; 18) GR	E	116.161 84	3.2	9320
4604	Q (2, −1 ; 17) GR	←	(1, −2 ; 17) GR	E	116.161 84	−6.8	9320
* 4605	Q (2, −1 ; 19) GR	←	(1, −2 ; 19) GR	E	116.163 59	−2.2	7572
* 4606	Q (2, −1 ; 16) GR	←	(1, −2 ; 16) GR	E	116.166 10	−0.4	6990
* 4607	Q (2, −1 ; 20) GR	←	(1, −2 ; 20) GR	E	116.169 73	0.7	6796
* 4608	Q (2, −1 ; 15) GR	←	(1, −2 ; 15) GR	E	116.172 14	−0.2	7378
* 4609	Q (2, −1 ; 21) GR	←	(1, −2 ; 21) GR	E	116.179 96	−0.2	7961
* 4610	Q (2, −1 ; 14) GR	←	(1, −2 ; 14) GR	E	116.179 96	−0.4	7961
* 4611	Q (2, −1 ; 13) GR	←	(1, −2 ; 13) GR	E	116.189 14	−1.0	7281
* 4612	Q (2, −1 ; 22) GR	←	(1, −2 ; 22) GR	E	116.195 05	−0.1	5825
* 4613	Q (2, −1 ; 12) GR	←	(1, −2 ; 12) GR	E	116.199 44	−0.4	7378
* 4614	Q (2, −1 ; 11) GR	←	(1, −2 ; 11) GR	E	116.210 31	−0.3	6990
* 4615	Q (2, −1 ; 23) GR	←	(1, −2 ; 23) GR	E	116.215 35	−0.4	6310
* 4616	R (1, 10 ; 20) GR	←	(1, 9 ; 19) GR	A	116.219 57	0.2	6407
* 4617	Q (2, −1 ; 10) GR	←	(1, −2 ; 10) GR	E	116.221 62	0.2	7184
* 4618	Q (2, −1 ; 9) GR	←	(1, −2 ; 9) GR	E	116.232 79	1.2	6796
* 4619	P (2, −2 ; 27) GR	←	(1, −1 ; 28) GR	E	116.237 92	−2.7	3009
* 4620	Q (2, −1 ; 24) GR	←	(1, −2 ; 24) GR	E	116.241 76	−0.2	5339
* 4621	Q (2, −1 ; 8) GR	←	(1, −2 ; 8) GR	E	116.243 63	−0.6	6699
* 4622	Q (2, −1 ; 7) GR	←	(1, −2 ; 7) GR	E	116.253 84	−0.8	7378
* 4623	Q (2, −1 ; 6) GR	←	(1, −2 ; 6) GR	E	116.263 42	−0.3	7766
* 4624	Q (2, −1 ; 5) GR	←	(1, −2 ; 5) GR	E	116.272 01	−1.1	6504
* 4625	Q (2, −1 ; 25) GR	←	(1, −2 ; 25) GR	E	116.274 47	−0.8	5436
* 4626	Q (2, −1 ; 4) GR	←	(1, −2 ; 4) GR	E	116.279 44	0.1	6504
* 4627	Q (2, −1 ; 3) GR	←	(1, −2 ; 3) GR	E	116.285 58	0.2	5922
* 4628	Q (2, −1 ; 2) GR	←	(1, −2 ; 2) GR	E	116.290 09	−1.1	4854
* 4629	R (1, −1 ; 24) GR	←	(1, 0 ; 23) GR	E	116.292 20	−0.9	5242
* 4630	R (0, 11 ; 23) GR	←	(0, 10 ; 22) GR	E	116.308 21	−0.3	6213
* 4631	Q (2, −1 ; 26) GR	←	(1, −2 ; 26) GR	E	116.314 47	−0.5	4660
* 4632	Q (2, −1 ; 27) GR	←	(1, −2 ; 27) GR	E	116.362 00	−1.1	4077
* 4633	R (0, −9 ; 38) GR	←	(0, −8 ; 37) GR	E	116.367 82	0.5	1262
* 4634	R (0, 9 ; 31) GR	←	(0, 8 ; 30) GR	A	116.385 75	−1.4	5242
* 4635	Q (2, −1 ; 28) GR	←	(1, −2 ; 28) GR	E	116.417 93	−0.5	4077
* 4636	Q (1, 7 ; 36) GR	←	(1, 6 ; 36) GR	A	116.433 56	−0.3	3689
* 4637	R (0, 11 ; 33) GR	←	(0, 10 ; 32) GR	A	116.436 14	−1.8	3203
* 4638	R (1, 2 ; 26) GR	←	(1, 1 ; 25) GR	E	116.469 40	0.7	4563
* 4639	Q (2, −1 ; 29) GR	←	(1, −2 ; 29) GR	E	116.482 61	−1.1	3592
* 4640	Q (2, −1 ; 30) GR	←	(1, −2 ; 30) GR	E	116.556 70	0.9	3009
* 4641	P (2, 3 ; 3) GR	←	(1, 4 ; 4) GR	A	116.604 41	−0.3	7378
* 4642	P (3, 4 ; 25) GR	←	(2, 5 ; 26) GR	E	116.627 64	−1.8	2038
* 4643	R (0, 13 ; 15) GR	←	(0, 12 ; 14) GR	A	116.629 77	0.4	7184
* 4644	Q (2, −1 ; 31) GR	←	(1, −2 ; 31) GR	E	116.640 62	−1.5	2815
* 4645	R (1, 9 ; 13) GR	←	(1, 8 ; 12) GR	E	116.700 25	1.2	6796
* 4646	Q (1, 7 ; 37) GR	←	(1, 6 ; 37) GR	A	116.776 65	0.1	1359
* 4647	R (0, 14 ; 20) GR	←	(0, 13 ; 19) GR	A	116.790 14	−0.1	5533
* 4648	R (1, −5 ; 12) GR	←	(1, −4 ; 11) GR	E	116.816 20	0.3	5728
* 4649	P (2, −5 ; 25) GR	←	(1, −4 ; 26) GR	E	116.888 84	0.0	1553
4650	P (2, 4 + ; 21) GR	←	(1, 3 − ; 22) GR	A	116.935 09	0.0	2572

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
4651	P (2, 4 ; 21) GR	←	(1, 3 − ; 22) GR	A	116.935 09	−4.7	2573
* 4652	P (2, 4 − ; 21) GR	←	(1, 3 + ; 22) GR	A	116.936 52	0.0	0
4653	P (2, 4 ; 21) GR	←	(1, 3 + ; 22) GR	A	116.936 53	−4.9	2709
* 4654	P (1, 5 ; 24) GR	←	(0, 6 ; 25) GR	A	117.015 66	−1.3	3398
* 4655	R (0, −10 ; 27) GR	←	(0, −9 ; 26) GR	E	117.059 90	−0.8	4854
* 4656	R (1, 3 + ; 31) GR	←	(1, 2 + ; 30) GR	A	117.132 19	−1.2	2621
* 4657	P (2, −4 ; 12) GR	←	(1, −5 ; 13) GR	E	117.146 09	−0.4	5631
* 4658	P (1, 11 ; 18) GR	←	(1, 10 ; 19) GR	A	117.230 83	−2.8	1941
* 4659	P (2, 4 ; 10) GR	←	(1, 5 ; 11) GR	A	117.235 63	0.0	3980
* 4660	R (2, −5 ; 13) GR	←	(1, −6 ; 12) GR	E	117.260 21	0.3	1456
* 4661	R (0, 10 ; 36) GR	←	(0, 9 ; 35) GR	A	117.337 64	0.9	2135
* 4662	P (1, 4 ; 24) G	←	(0, 5 ; 25) GR	E	117.347 99	0.3	2718
* 4663	P (1, 10 ; 15) GR	←	(0, 11 ; 16) GR	A	117.367 61	−0.8	2524
* 4664	P (1, 6 ; 22) GR	←	(0, 7 ; 23) GR	A	117.387 59	−1.4	2621
* 4665	P (1, −3 ; 27) GR	←	(0, −4 ; 28) GR	E	117.427 02	−0.9	1553
* 4666	P (3, −3 ; 23) GR	←	(2, −4 ; 24) GR	E	117.442 40	−1.2	2135
* 4667	P (2, 3 ; 22) GR	←	(1, 2 ; 23) GR	E	117.487 26	−0.1	3689
* 4668	R (2, −2 ; 25) GR	←	(2, −1 ; 24) GR	E	117.545 39	1.1	1650
* 4669	R (0, 12 ; 22) GR	←	(0, 11 ; 21) GR	E	117.561 39	−0.9	4563
* 4670	R (0, −11 ; 29) GR	←	(0, −10 ; 28) GR	E	117.568 13	−0.8	3106
* 4671	P (2, −6 ; 28) GR	←	(2, −5 ; 29) GR	E	117.580 70	0.1	776
* 4672	R (0, 12 ; 21) GR	←	(0, 11 ; 20) GR	A	117.629 28	0.8	6601
4673	R (1, 10 ; 20) GR	←	(1, 8 ; 19) GR	A	117.649 29	4.4	6601
* 4674	R (1, −4 ; 37) GR	←	(1, −3 ; 36) GR	E	117.688 03	0.1	970
* 4675	P (1, −7 ; 13) GR	←	(0, −8 ; 14) GR	E	117.730 79	−0.1	3495
* 4676	R (1, 10 ; 21) GR	←	(1, 9 ; 20) GR	A	117.778 60	0.1	5631
* 4677	R (0, 11 ; 24) GR	←	(0, 10 ; 23) GR	E	117.869 68	0.5	5242
4678	P (2, −2 ; 26) GR	←	(1, −1 ; 27) GR	E	117.869 68	−8.8	5242
* 4679	R (1, −1 ; 25) GR	←	(1, 0 ; 24) GR	E	117.902 51	−0.6	4854
* 4680	R (0, 9 ; 32) GR	←	(0, 8 ; 31) GR	A	117.924 79	−1.1	4174
* 4681	R (0, 11 ; 34) GR	←	(0, 10 ; 33) GR	A	117.962 77	−2.3	2912
* 4682	P (1, −6 ; 26) GR	←	(0, −7 ; 27) GR	E	118.038 62	−0.8	1359
* 4683	R (1, 2 ; 27) GR	←	(1, 1 ; 26) GR	E	118.087 09	−0.4	4174
* 4684	R (0, 13 ; 16) GR	←	(0, 12 ; 15) GR	A	118.192 15	0.0	6893
* 4685	P (3, 4 ; 24) GR	←	(2, 5 ; 25) GR	E	118.211 56	0.2	1650
* 4686	R (1, 9 ; 14) GR	←	(1, 8 ; 13) GR	E	118.252 13	−0.8	6699
* 4687	R (0, 14 ; 21) GR	←	(0, 13 ; 20) GR	A	118.329 58	−0.3	4854
* 4688	R (1, −5 ; 13) GR	←	(1, −4 ; 12) GR	E	118.388 02	0.0	5922
* 4689	R (1, −8 ; 8) GR	←	(1, −7 ; 7) GR	E	118.416 51	−0.3	7378
* 4690	P (2, −5 ; 24) GR	←	(1, −4 ; 25) GR	E	118.547 38	−1.9	2233
* 4691	P (2, 4 ; 20) GR	←	(1, 3 ; 21) GR	A	118.550 15	−1.7	4757
* 4692	R (0, −10 ; 28) GR	←	(0, −9 ; 27) GR	E	118.613 50	−2.0	4271
* 4693	P (1, 5 ; 23) GR	←	(0, 6 ; 24) GR	A	118.680 23	−1.7	3689
* 4694	P (2, −4 ; 11) GR	←	(1, −5 ; 12) GR	E	118.747 50	−1.0	5048
* 4695	R (1, 3 + ; 32) GR	←	(1, 2 + ; 31) GR	A	118.798 30	−2.2	2427
* 4696	P (1, 11 ; 17) GR	←	(1, 10 ; 18) GR	A	118.804 50	−0.9	1747
* 4697	R (2, −5 ; 14) GR	←	(1, −6 ; 13) GR	E	118.810 65	−0.8	2135
* 4698	P (2, 4 ; 9) GR	←	(1, 5 ; 10) GR	A	118.814 97	−0.2	4854
* 4699	R (0, 10 ; 37) GR	←	(0, 9 ; 36) GR	A	118.826 99	0.0	1844
* 4700	P (1, 10 ; 14) GR	←	(0, 11 ; 15) GR	A	118.982 60	0.6	2427
* 4701	P (1, 4 ; 23) GR	←	(0, 5 ; 24) GR	E	119.017 61	−1.2	2621
* 4702	P (3, −3 ; 22) GR	←	(2, −4 ; 23) GR	E	119.028 87	−1.1	2815
* 4703	R (2, −2 ; 26) GR	←	(2, −1 ; 25) GR	E	119.093 54	2.0	3495
* 4704	R (0, −11 ; 30) GR	←	(0, −10 ; 29) GR	E	119.093 54	−0.3	3495
* 4705	P (2, 3 ; 21) GR	←	(1, 2 ; 22) GR	E	119.101 80	0.5	3786
* 4706	R (0, 12 ; 23) GR	←	(0, 11 ; 22) GR	E	119.110 59	−0.6	4368
* 4707	P (1, −3 ; 26) GR	←	(0, −4 ; 27) GR	E	119.120 25	−0.3	2038
* 4708	P (1, 6 ; 21) GR	←	(0, 7 ; 22) GR	A	119.146 06	−0.2	3106
* 4709	P (2, −6 ; 27) GR	←	(2, −5 ; 28) GR	E	119.152 81	−2.1	970
* 4710	R (0, 12 ; 22) GR	←	(0, 11 ; 21) GR	A	119.191 53	−0.7	6310
* 4711	R (1, 10 ; 21) GR	←	(1, 8 ; 20) GR	A	119.236 68	2.1	6504
* 4712	R (1, 10 ; 22) GR	←	(1, 9 ; 21) GR	A	119.339 96	−0.9	5533
* 4713	P (1, −7 ; 12) GR	←	(0, −8 ; 13) GR	E	119.358 59	−0.4	3883
* 4714	R (0, 11 ; 25) GR	←	(0, 10 ; 24) GR	E	119.430 20	−0.4	4854
* 4715	R (0, 9 ; 33) GR	←	(0, 8 ; 32) GR	A	119.461 29	−1.2	3883
* 4716	R (0, 11 ; 35) GR	←	(0, 10 ; 34) GR	A	119.486 32	0.0	2135
* 4717	P (2, −2 ; 25) GR	←	(1, −1 ; 26) GR	E	119.499 52	−0.8	2621
* 4718	R (1, −1 ; 26) GR	←	(1, 0 ; 25) GR	E	119.517 98	−1.0	4174
* 4719	R (1, 2 ; 28) GR	←	(1, 1 ; 27) GR	E	119.710 87	0.7	3980
* 4720	P (1, −6 ; 25) GR	←	(0, −7 ; 26) GR	E	119.715 68	−2.0	1650
* 4721	R (0, 13 ; 17) GR	←	(0, 12 ; 16) GR	A	119.753 45	−0.7	7087
4722	P (3, 4 ; 23) GR	←	(2, 5 ; 24) GR	E	119.795 52	4.2	2233
* 4723	R (1, 9 ; 15) GR	←	(1, 8 ; 14) GR	E	119.800 30	−0.6	6116
* 4724	R (0, 14 ; 22) GR	←	(0, 13 ; 21) GR	A	119.865 65	−0.5	5145
* 4725	P (2, −1 ; 25) GR	←	(1, 0 ; 26) GR	E	119.916 49	0.8	1067

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int /a.u.
* 4726	R (1, −5 ; 14) GR	←	(1, −4 ; 13) GR	E	119.960 29	−0.8	5533
* 4727	R (1, −8 ; 9) GR	←	(1, −7 ; 8) GR	E	119.984 15	0.2	7475
* 4728	Q (2, 3 ; 30) GR	←	(1, 4 ; 30) GR	A	120.144 99	0.5	3883
* 4729	P (2, 4 ; 19) GR	←	(1, 3 ; 20) GR	A	120.161 17	−0.6	6213
* 4730	R (0, −10 ; 29) GR	←	(0, −9 ; 28) GR	E	120.165 72	0.5	3689
* 4731	P (2, −5 ; 23) GR	←	(1, −4 ; 24) GR	E	120.199 62	−0.6	2330
* 4732	R (0, 10 ; 38) GR	←	(0, 9 ; 37) GR	A	120.310 97	0.0	1359
* 4733	P (1, 5 ; 22) GR	←	(0, 6 ; 23) GR	A	120.341 30	−0.6	4466
* 4734	P (2, −4 ; 10) GR	←	(1, −5 ; 11) GR	E	120.345 23	0.5	5825
* 4735	R (2, −5 ; 15) GR	←	(1, −6 ; 14) GR	E	120.360 23	−1.2	1650
* 4736	P (2, 4 ; 8) GR	←	(1, 5 ; 9) GR	A	120.393 84	−1.5	4271
* 4737	Q (2, 3 ; 29) GR	←	(1, 4 ; 29) GR	A	120.403 93	−1.4	4174
* 4738	R (1, 3 + ; 33) GR	←	(1, 2 + ; 32) GR	A	120.473 83	0.4	2135
* 4739	P (1, 10 ; 13) GR	←	(0, 11 ; 14) GR	A	120.596 16	−0.6	2718
* 4740	P (3, −3 ; 21) GR	←	(2, −4 ; 22) GR	E	120.615 21	2.5	3980
* 4741	R (0, −11 ; 31) GR	←	(0, −10 ; 30) GR	E	120.615 21	−1.6	3980
* 4742	R (2, −2 ; 27) GR	←	(2, −1 ; 26) GR	E	120.639 16	−1.2	1650
* 4743	Q (2, 3 ; 28) GR	←	(1, 4 ; 28) GR	A	120.648 70	−0.2	4563
* 4744	R (0, 12 ; 24) GR	←	(0, 11 ; 23) GR	E	120.657 56	−0.7	4368
* 4745	P (1, 4 ; 22) GR	←	(0, 5 ; 23) GR	E	120.682 99	−1.2	3106
* 4746	P (2, 3 ; 20) GR	←	(1, 2 ; 21) GR	E	120.713 31	−0.2	3883
* 4747	P (2, −6 ; 26) GR	←	(2, −5 ; 27) GR	E	120.725 54	0.1	1359
* 4748	R (0, 12 ; 23) GR	←	(0, 11 ; 22) GR	A	120.753 68	−0.4	6407
* 4749	P (1, −3 ; 25) GR	←	(0, −4 ; 26) GR	E	120.807 67	−2.0	2233
* 4750	R (1, 10 ; 22) GR	←	(1, 8 ; 21) GR	A	120.825 87	−0.9	2135
* 4751	Q (2, 3 ; 27) GR	←	(1, 4 ; 27) GR	A	120.878 96	−0.3	5631
* 4752	P (1, 6 ; 20) GR	←	(0, 7 ; 21) GR	A	120.888 96	−1.0	3203
* 4753	R (1, 10 ; 23) GR	←	(1, 9 ; 22) GR	A	120.904 04	1.1	4854
* 4754	P (1, −7 ; 11) GR	←	(0, −8 ; 12) GR	E	120.981 27	1.7	4174
* 4755	R (0, 11 ; 26) GR	←	(0, 10 ; 25) GR	E	120.990 53	0.9	4563
* 4756	R (0, 9 ; 34) GR	←	(0, 8 ; 33) GR	A	120.995 60	1.5	3592
* 4757	R (2, −1 ; 3) GR	←	(1, −2 ; 2) GR	E	120.996 91	1.2	2832
* 4758	Q (2, 3 ; 26) GR	←	(1, 4 ; 26) GR	A	121.094 66	−0.2	5436
* 4759	(2, −2 ; 24) GR	←	(1, −1 ; 25) GR	E	121.125 56	0.4	2815
* 4760	R (1, −1 ; 27) GR	←	(1, 0 ; 26) GR	E	121.139 15	−0.4	3980
* 4761	Q (2, 3 ; 25) GR	←	(1, 4 ; 25) GR	A	121.295 68	−0.1	5631
* 4762	R (0, 13 ; 18) GR	←	(0, 12 ; 17) GR	A	121.313 64	1.5	7475
* 4763	R (1, 2 ; 29) GR	←	(1, 1 ; 28) GR	E	121.340 77	−1.2	3495
* 4764	R (1, 9 ; 16) GR	←	(1, 8 ; 15) GR	E	121.344 19	0.9	6893
* 4765	Q (1, 9 ; 31) GR	←	(0, 10 ; 31) GR	A	121.351 04	−2.3	1165
* 4766	P (3, 4 ; 22) GR	←	(2, 5 ; 23) GR	E	121.378 79	1.2	2233
* 4767	P (1, −6 ; 24) GR	←	(0, −7 ; 25) GR	E	121.389 01	−2.0	1844
* 4768	R (0, 14 ; 23) GR	←	(0, 13 ; 22) GR	A	121.398 13	−1.4	4563
* 4769	Q (1, 9 ; 30) GR	←	(0, 10 ; 30) GR	A	121.467 07	−0.6	1067
* 4770	P (2, −1 ; 24) GR	←	(1, 0 ; 25) GR	E	121.472 28	−1.2	1262
* 4771	Q (2, 3 ; 24) GR	←	(1, 4 ; 24) GR	A	121.482 18	−1.1	6504
* 4772	R (1, −5 ; 15) GR	←	(1, −4 ; 14) GR	E	121.533 18	−1.7	6116
* 4773	R (1, −8 ; 10) GR	←	(1, −7 ; 9) GR	E	121.552 09	−3.6	9029
* 4774	Q (1, 9 ; 29) GR	←	(0, 10 ; 29) GR	A	121.577 60	−0.3	1165
* 4775	Q (2, 3 ; 23) GR	←	(1, 4 ; 23) GR	A	121.654 11	0.4	5825
4776	Q (1, 9 ; 28) GR	←	(0, 10 ; 28) GR	A	121.683 99	6.5	1650
* 4777	R (0, −10 ; 30) GR	←	(0, −9 ; 29) GR	E	121.716 50	−0.5	3735
* 4778	P (2, 4 ; 18) GR	←	(1, 3 ; 19) GR	A	121.769 12	−0.1	6699
* 4779	Q (1, 9 ; 27) GR	←	(0, 10 ; 27) GR	A	121.783 83	0.3	1359
* 4780	Q (2, 3 ; 22) GR	←	(1, 4 ; 22) GR	A	121.812 08	3.1	8932
* 4781	P (2, −5 ; 22) GR	←	(1, −4 ; 23) GR	E	121.845 89	1.3	2330
* 4782	Q (1, 9 ; 26) GR	←	(0, 10 ; 26) GR	A	121.879 07	−1.9	1359
* 4783	P (2, −4 ; 9) GR	←	(1, −5 ; 10) GR	E	121.939 32	−0.3	5242
* 4784	P (1, 11 ; 15) GR	←	(1, 10 ; 16) GR	A	121.948 94	−0.6	1262
* 4785	Q (2, 3 ; 21) GR	←	(1, 4 ; 21) GR	A	121.955 27	−0.7	6407
* 4786	Q (1, 9 ; 25) GR	←	(0, 10 ; 25) GR	A	121.970 03	−0.6	4174
* 4787	P (2, 4 ; 7) GR	←	(1, 5 ; 8) GR	A	121.972 33	−0.1	4757
* 4788	P (1, 5 ; 21) GR	←	(0, 6 ; 22) GR	A	121.998 69	−0.3	4757
4789	Q (1, 9 ; 24) GR	←	(0, 10 ; 24) GR	A	122.055 74	−3.8	2135
* 4790	Q (2, 3 ; 20) GR	←	(1, 4 ; 20) GR	A	122.085 30	0.0	7281
* 4791	R (0, −11 ; 32) GR	←	(0, −10 ; 31) GR	E	122.133 52	−1.2	2524
* 4792	Q (1, 9 ; 23) GR	←	(0, 10 ; 23) GR	A	122.137 42	0.9	2135
* 4793	R (2, −2 ; 28) GR	←	(2, −1 ; 27) GR	E	122.183 38	−0.8	1262
* 4794	P (3, −3 ; 20) GR	←	(2, −4 ; 21) GR	E	122.200 27	−0.2	3786
* 4795	Q (2, 3 ; 19) GR	←	(1, 4 ; 19) GR	A	122.202 51	3.2	7961
* 4796	R (0, 12 ; 25) GR	←	(0, 11 ; 24) GR	E	122.202 51	1.8	7961
* 4797	P (1, 10 ; 12) GR	←	(0, 11 ; 13) GR	A	122.207 97	−0.7	2718
* 4798	Q (1, 9 ; 22) GR	←	(0, 10 ; 22) GR	A	122.214 27	0.9	2718
* 4799	Q (1, 9 ; 21) GR	←	(0, 10 ; 21) GR	A	122.286 15	−1.9	2427
* 4800	P (2, −6 ; 25) GR	←	(2, −5 ; 26) GR	E	122.297 61	0.1	1359



Index	upper state T (n, K ; J) ν	←	lower state (n, K ; J) ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 4801	Q (2, 3 ; 18) GR	←	(1, 4 ; 18) GR	A	122.306 38	−0.9	7572
* 4802	R (0, 12 ; 24) GR	←	(0, 11 ; 23) GR	A	122.315 79	−2.0	6310
* 4803	P (2, 3 ; 19) GR	←	(1, 2 ; 20) GR	E	122.322 15	−0.4	4271
* 4804	P (1, 4 ; 21) GR	←	(0, 5 ; 22) GR	E	122.344 34	−0.9	3398
* 4805	Q (1, 9 ; 20) GR	←	(0, 10 ; 20) GR	A	122.354 19	−0.4	3009
* 4806	Q (2, 3 ; 17) GR	←	(1, 4 ; 17) GR	A	122.398 86	−0.4	7475
* 4807	Q (1, 9 ; 19) GR	←	(0, 10 ; 19) GR	A	122.417 88	1.0	3786
* 4808	R (1, 10 ; 23) GR	←	(1, 8 ; 22) GR	A	122.417 88	−1.1	3786
* 4809	R (1, 10 ; 24) GR	←	(1, 9 ; 23) GR	A	122.471 20	−0.2	4466
* 4810	Q (1, 9 ; 18) GR	←	(0, 10 ; 18) GR	A	122.477 15	−0.1	3203
* 4811	Q (2, 3 ; 16) GR	←	(1, 4 ; 16) GR	A	122.480 16	−1.1	7572
* 4812	P (1, −3 ; 24) GR	←	(0, −4 ; 25) GR	E	122.489 99	−0.7	2524
* 4813	R (0, 9 ; 35) GR	←	(0, 8 ; 34) GR	A	122.526 71	−0.2	3592
* 4814	Q (1, 9 ; 17) GR	←	(0, 10 ; 17) GR	A	122.532 23	−0.7	2815
4815	R (0, 11 ; 27) GR	←	(0, 10 ; 26) GR	E	122.550 91	4.2	8834
* 4816	Q (2, 3 ; 15) GR	←	(1, 4 ; 15) GR	A	122.550 91	−2.6	8834
* 4817	R (2, −1 ; 4) GR	←	(1, −2 ; 3) GR	E	122.560 90	1.6	2718
* 4818	Q (1, 9 ; 16) GR	←	(0, 10 ; 16) GR	A	122.583 54	−0.2	3009
* 4819	P (1, −7 ; 10) GR	←	(0, −8 ; 11) GR	E	122.598 23	0.1	4466
* 4820	Q (2, 3 ; 14) GR	←	(1, 4 ; 14) GR	A	122.612 56	−0.4	7864
* 4821	P (1, 6 ; 19) GR	←	(0, 7 ; 20) GR	A	122.616 84	−1.3	3883
* 4822	Q (1, 9 ; 15) GR	←	(0, 10 ; 15) GR	A	122.630 92	0.5	3009
* 4823	Q (2, 3 ; 13) GR	←	(1, 4 ; 13) GR	A	122.665 34	−0.3	7669
* 4824	Q (1, 9 ; 14) GR	←	(0, 10 ; 14) GR	A	122.674 48	−1.1	2718
* 4825	Q (2, 3 ; 12) GR	←	(1, 4 ; 12) GR	A	122.710 24	−1.0	8058
* 4826	Q (1, 9 ; 13) GR	←	(0, 10 ; 13) GR	A	122.714 49	−0.7	3398
* 4827	Q (2, 3 ; 11) GR	←	(1, 4 ; 11) GR	A	122.748 21	0.1	8543
* 4828	P (2, −2 ; 23) GR	←	(1, −1 ; 24) GR	E	122.748 21	−2.6	8543
* 4829	Q (1, 9 ; 12) GR	←	(0, 10 ; 12) GR	A	122.750 78	−1.5	2621
* 4830	R (1, −1 ; 28) GR	←	(1, 0 ; 27) GR	E	122.765 96	−0.1	3786
* 4831	R (1, 7 ; 12) GR	←	(1, 4 ; 11) GR	A	122.775 50	1.0	970
* 4832	Q (2, 3 ; 10) GR	←	(1, 4 ; 10) GR	A	122.779 86	−0.6	7572
* 4833	Q (1, 9 ; 11) GR	←	(0, 10 ; 11) GR	A	122.783 99	−0.1	2621
* 4834	Q (2, 3 ; 9) GR	←	(1, 4 ; 9) GR	A	122.806 04	−2.1	7669
* 4835	Q (1, 9 ; 10) GR	←	(0, 10 ; 10) GR	A	122.813 65	−0.7	1747
* 4836	Q (2, 3 ; 8) GR	←	(1, 4 ; 8) GR	A	122.827 64	−1.3	7281
* 4837	Q (2, 3 ; 7) GR	←	(1, 4 ; 7) GR	A	122.845 04	−1.3	7378
* 4838	Q (2, 3 ; 6) GR	←	(1, 4 ; 6) GR	A	122.859 10	0.3	6990
* 4839	Q (2, 3 ; 5) GR	←	(1, 4 ; 5) GR	A	122.870 09	0.1	6310
* 4840	R (0, 13 ; 19) GR	←	(0, 12 ; 18) GR	A	122.872 22	−0.9	6990
* 4841	Q (2, 3 ; 4) GR	←	(1, 4 ; 4) GR	A	122.878 57	−0.1	5631
* 4842	R (1, 9 ; 17) GR	←	(1, 8 ; 16) GR	E	122.883 11	−0.5	6116
* 4843	R (0, 14 ; 24) GR	←	(0, 13 ; 23) GR	A	122.926 88	−0.6	4174
* 4844	P (3, 4 ; 21) GR	←	(2, 5 ; 22) GR	E	122.962 20	−0.5	2524
* 4845	R (1, 2 ; 30) GR	←	(1, 1 ; 29) GR	E	122.977 55	0.2	3398
* 4846	R (1, 6 ; 6) GR	←	(1, 5 ; 5) GR	E	122.997 62	−0.9	7475
* 4847	P (2, −1 ; 23) GR	←	(1, 0 ; 24) GR	E	123.032 30	−1.3	970
* 4848	P (1, −6 ; 23) GR	←	(0, −7 ; 24) GR	E	123.058 30	−0.5	2038
* 4849	R (1, −5 ; 16) GR	←	(1, −4 ; 15) GR	E	123.106 88	−0.5	5339
* 4850	R (1, −8 ; 11) GR	←	(1, −7 ; 10) GR	E	123.121 65	−0.2	7766
* 4851	R (0, −10 ; 31) GR	←	(0, −9 ; 30) GR	E	123.266 24	0.8	3106
* 4852	P (2, 4 ; 17) GR	←	(1, 3 ; 18) GR	A	123.374 39	−0.9	6504
* 4853	R (2, −5 ; 17) GR	←	(1, −6 ; 16) GR	E	123.457 48	1.0	1747
* 4854	P (2, −5 ; 21) GR	←	(1, −4 ; 22) GR	E	123.485 75	−0.7	2427
* 4855	P (1, 11 ; 14) GR	←	(1, 10 ; 15) GR	A	123.520 37	2.0	1650
* 4856	P (2, −4 ; 8) GR	←	(1, −5 ; 9) GR	E	123.530 31	0.2	5242
* 4857	R (1, 7 ; 7) GR	←	(1, 6 ; 6) GR	A	123.536 00	−0.6	8640
* 4858	P (2, 4 ; 6) GR	←	(1, 5 ; 7) GR	A	123.549 84	−0.7	4077
* 4859	R (0, −11 ; 33) GR	←	(0, −10 ; 32) GR	E	123.647 43	−1.3	2038
* 4860	P (1, 5 ; 20) GR	←	(0, 6 ; 21) GR	A	123.652 19	−0.3	4757
* 4861	R (2, −2 ; 29) GR	←	(2, −1 ; 28) GR	E	123.725 56	−1.9	1067
* 4862	R (0, 12 ; 26) GR	←	(0, 11 ; 25) GR	E	123.744 23	0.4	3883
* 4863	P (3, −3 ; 19) GR	←	(2, −4 ; 20) GR	E	123.785 19	−0.2	3883
* 4864	P (1, 10 ; 11) GR	←	(0, 11 ; 12) GR	A	123.817 73	−0.1	3106
* 4865	P (2, −6 ; 24) GR	←	(2, −5 ; 25) GR	E	123.869 44	0.1	1747
* 4866	R (0, 12 ; 25) GR	←	(0, 11 ; 24) GR	A	123.877 91	−1.2	5728
* 4867	P (2, 3 ; 18) GR	←	(1, 2 ; 19) GR	E	123.928 25	−0.3	4271
* 4868	P (1, 4 ; 20) GR	←	(0, 5 ; 21) GR	E	124.001 64	−1.5	3300
* 4869	R (1, 10 ; 24) GR	←	(1, 8 ; 23) GR	A	124.012 70	−0.2	1650
* 4870	R (1, 10 ; 25) GR	←	(1, 9 ; 24) GR	A	124.041 93	0.9	5145
* 4871	R (0, 9 ; 36) GR	←	(0, 8 ; 35) GR	A	124.055 76	−0.6	2427
* 4872	R (0, 11 ; 28) GR	←	(0, 10 ; 27) GR	E	124.110 03	0.2	3786
* 4873	R (2, −1 ; 5) GR	←	(1, −2 ; 4) GR	E	124.123 07	−1.0	4466
* 4874	P (1, −3 ; 23) GR	←	(0, −4 ; 24) GR	E	124.166 93	−0.5	3106
* 4875	P (1, −7 ; 9) GR	←	(0, −8 ; 10) GR	E	124.210 62	−2.1	4271

Index	upper state T (n, K ; J) ν	←	lower state (n, K ; J) ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 4876	R (1, 7 ; 13) GR	←	(1, 4 ; 12) GR	A	124.317 60	2.3	582
* 4877	P (1, 6 ; 18) GR	←	(0, 7 ; 19) GR	A	124.330 51	−0.9	3980
* 4878	P (2, −2 ; 22) GR	←	(1, −1 ; 23) GR	E	124.368 54	−0.4	3398
* 4879	R (1, −1 ; 29) GR	←	(1, 0 ; 28) GR	E	124.398 64	−0.1	3592
* 4880	R (1, 9 ; 18) GR	←	(1, 8 ; 17) GR	E	124.417 06	−0.1	6310
* 4881	R (0, 13 ; 20) GR	←	(0, 12 ; 19) GR	A	124.429 71	−0.5	6407
* 4882	R (0, 14 ; 25) GR	←	(0, 13 ; 24) GR	A	124.451 48	−0.6	4077
* 4883	P (3, 4 ; 20) GR	←	(2, 5 ; 21) GR	E	124.545 53	0.7	3495
* 4884	R (1, 6 ; 7) GR	←	(1, 5 ; 6) GR	E	124.566 70	0.1	7281
* 4885	P (2, −1 ; 22) GR	←	(1, 0 ; 23) GR	E	124.596 26	−1.4	1553
* 4886	R (1, 2 ; 31) GR	←	(1, 1 ; 30) GR	E	124.621 71	−0.4	3203
* 4887	R (1, −5 ; 17) GR	←	(1, −4 ; 16) GR	E	124.681 28	0.1	5631
* 4888	R (1, −8 ; 12) GR	←	(1, −7 ; 11) GR	E	124.692 21	0.1	7184
* 4889	P (1, −6 ; 22) GR	←	(0, −7 ; 23) GR	E	124.723 39	−0.4	2135
* 4890	R (0, −10 ; 32) GR	←	(0, −9 ; 31) GR	E	124.814 51	0.5	2621
* 4891	P (2, 4 ; 16) GR	←	(1, 3 ; 17) GR	A	124.977 00	−0.6	6504
4892	R (2, −5 ; 18) GR	←	(1, −6 ; 17) GR	E	125.004 78	−4.7	6990
* 4893	P (1, 11 ; 13) GR	←	(1, 10 ; 14) GR	A	125.090 59	1.5	873
* 4894	R (1, 7 ; 8) GR	←	(1, 6 ; 7) GR	A	125.105 58	0.0	8446
* 4895	P (2, −4 ; 7) GR	←	(1, −5 ; 8) GR	E	125.118 30	−0.9	5533
* 4896	P (2, −5 ; 20) GR	←	(1, −4 ; 21) GR	E	125.120 51	0.6	3106
* 4897	P (2, 4 ; 5) GR	←	(1, 5 ; 6) GR	A	125.126 61	0.2	4174
* 4898	R (0, −11 ; 34) GR	←	(0, −10 ; 33) GR	E	125.157 11	−0.5	1650
* 4899	R (2, −2 ; 30) GR	←	(2, −1 ; 29) GR	E	125.265 47	−2.0	776
* 4900	R (0, 12 ; 27) GR	←	(0, 11 ; 26) GR	E	125.283 31	−0.3	4466
* 4901	P (1, 5 ; 19) GR	←	(0, 6 ; 20) GR	A	125.301 47	0.0	5145
* 4902	P (3, −3 ; 18) GR	←	(2, −4 ; 19) GR	E	125.369 40	−0.7	3883
* 4903	P (1, 10 ; 10) GR	←	(0, 11 ; 11) GR	A	125.425 21	0.2	2815
* 4904	R (0, 12 ; 26) GR	←	(0, 11 ; 25) GR	A	125.440 27	1.2	6019
4905	P (2, −6 ; 23) GR	←	(2, −5 ; 24) GR	E	125.440 27	−7.9	6019
* 4906	P (2, 3 ; 17) GR	←	(1, 2 ; 18) GR	E	125.531 90	0.6	4563
* 4907	R (0, 9 ; 37) GR	←	(0, 8 ; 36) GR	A	125.583 38	0.0	2281
* 4908	R (1, 10 ; 25) GR	←	(1, 8 ; 24) GR	A	125.610 13	−0.4	1650
* 4909	R (1, 10 ; 26) GR	←	(1, 9 ; 25) GR	A	125.616 34	−0.7	4466
* 4910	P (1, 4 ; 19) GR	←	(0, 5 ; 20) GR	E	125.654 78	−0.6	4077
* 4911	R (0, 11 ; 29) GR	←	(0, 10 ; 28) GR	E	125.669 23	0.3	3592
* 4912	R (2, −1 ; 6) GR	←	(1, −2 ; 5) GR	E	125.684 15	−0.2	4660
* 4913	P (1, −7 ; 8) GR	←	(0, −8 ; 9) GR	E	125.818 54	−0.7	4563
* 4914	P (1, −3 ; 22) GR	←	(0, −4 ; 23) GR	E	125.838 73	−0.6	3398
* 4915	R (1, 7 ; 14) GR	←	(1, 4 ; 13) GR	A	125.852 77	0.4	873
* 4916	R (1, 9 ; 19) GR	←	(1, 8 ; 18) GR	E	125.945 37	−0.5	5436
* 4917	R (0, 14 ; 26) GR	←	(0, 13 ; 25) GR	A	125.971 75	−0.1	3883
* 4918	P (2, −2 ; 21) GR	←	(1, −1 ; 22) GR	E	125.985 76	−0.1	7087
* 4919	R (0, 13 ; 21) GR	←	(0, 12 ; 20) GR	A	125.985 76	−0.9	7087
* 4920	P (2, 5 ; 32) GR	←	(2, 4 ; 33) GR	A	126.004 37	0.3	1262
* 4921	P (1, 6 ; 17) GR	←	(0, 7 ; 18) GR	A	126.030 42	−0.5	4271
* 4922	R (1, −1 ; 30) GR	←	(1, 0 ; 29) GR	E	126.035 35	−1.7	2815
* 4923	P (3, 4 ; 19) GR	←	(2, 5 ; 20) GR	E	126.128 59	0.0	3203
* 4924	R (1, 6 ; 8) GR	←	(1, 5 ; 7) GR	E	126.133 19	−0.6	7572
* 4925	P (2, −1 ; 21) GR	←	(1, 0 ; 22) GR	E	126.163 52	0.7	1165
* 4926	R (1, −5 ; 18) GR	←	(1, −4 ; 17) GR	E	126.256 52	−0.4	5436
* 4927	R (1, −8 ; 13) GR	←	(1, −7 ; 12) GR	E	126.264 54	0.0	7087
* 4928	R (1, 2 ; 32) GR	←	(1, 1 ; 31) GR	E	126.273 33	−1.0	2135
* 4929	R (0, −10 ; 33) GR	←	(0, −9 ; 32) GR	E	126.361 43	1.2	2718
4930	P (1, −6 ; 21) GR	←	(0, −7 ; 22) GR	E	126.384 09	−5.0	4660
4931	P (1, 9 ; 23) GR	←	(0, 10 ; 24) GR	E	126.384 09	−6.7	4660
* 4932	R (2, −5 ; 19) GR	←	(1, −6 ; 18) GR	E	126.552 70	0.2	1553
* 4933	P (2, 4 ; 15) GR	←	(1, 3 ; 16) GR	A	126.577 08	−0.5	6407
* 4934	P (1, 11 ; 12) GR	←	(1, 10 ; 13) GR	A	126.661 38	5.5	1456
* 4935	R (0, −11 ; 35) GR	←	(0, −10 ; 34) GR	E	126.661 38	−1.2	1456
* 4936	R (1, 7 ; 9) GR	←	(1, 6 ; 8) GR	A	126.676 65	−1.0	8252
* 4937	P (2, 4 ; 4) GR	←	(1, 5 ; 5) GR	A	126.702 30	−1.9	0
* 4938	P (2, −4 ; 6) GR	←	(1, −5 ; 7) GR	E	126.703 44	−1.9	5922
* 4939	P (1, 2 +; 27) GR	←	(0, 3 −; 28) GR	A	126.717 46	−0.7	2330
* 4940	P (2, −5 ; 19) GR	←	(1, −4 ; 20) GR	E	126.749 72	−0.9	3300
* 4941	R (2, −2 ; 31) GR	←	(2, −1 ; 30) GR	E	126.803 99	0.7	873
* 4942	R (0, 12 ; 28) GR	←	(0, 11 ; 27) GR	E	126.819 49	−0.1	3106
* 4943	P (1, 5 ; 18) GR	←	(0, 6 ; 19) GR	A	126.942 19	−0.3	4660
* 4944	P (3, −3 ; 17) GR	←	(2, −4 ; 18) GR	E	126.953 06	0.3	4077
4945	R (0, 12 ; 27) GR	←	(0, 11 ; 26) GR	A	127.000 38	−6.5	2332
4946	P (2, −6 ; 22) GR	←	(2, −5 ; 23) GR	E	127.012 11	−2.6	3203
4947	P (2, 3 ; 16) GR	←	(1, 2 ; 17) GR	E	127.132 32	−7.8	8058
* 4948	R (1, 10 ; 27) GR	←	(1, 9 ; 26) GR	A	127.195 03	−1.7	4660
4949	R (1, 10 ; 26) GR	←	(1, 8 ; 25) GR	A	127.211 57	6.5	7281
* 4950	R (0, 11 ; 30) GR	←	(0, 10 ; 29) GR	E	127.228 32	−0.6	3106



Index	upper state T (n, K ; J) ν	←	lower state (n, K ; J) ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 4951	R (2, −1 ; 7) GR	←	(1, −2 ; 6) GR	E	127.243 69	−0.1	4757
* 4952	P (1, 4 ; 18) GR	←	(0, 5 ; 19) GR	E	127.303 90	−1.3	4466
* 4953	R (1, 7 ; 15) GR	←	(1, 4 ; 14) GR	A	127.380 84	−1.3	1067
* 4954	P (1, −7 ; 7) GR	←	(0, −8 ; 8) GR	E	127.422 05	−1.3	4951
* 4955	R (1, 9 ; 20) GR	←	(1, 8 ; 19) GR	E	127.467 97	0.5	5533
* 4956	R (0, 14 ; 27) GR	←	(0, 13 ; 26) GR	A	127.487 43	−0.4	3786
* 4957	P (1, −3 ; 21) GR	←	(0, −4 ; 22) GR	E	127.505 65	−0.6	3495
* 4958	R (0, 13 ; 22) GR	←	(0, 12 ; 21) GR	A	127.540 15	−1.4	5922
* 4959	P (2, 5 ; 31) GR	←	(2, 4 ; 32) GR	A	127.582 46	−1.2	1553
* 4960	P (2, −2 ; 20) GR	←	(1, −1 ; 21) GR	E	127.600 04	−0.6	4271
* 4961	R (1, 6 ; 9) GR	←	(1, 5 ; 8) GR	E	127.696 12	−0.2	7475
* 4962	P (3, 4 ; 18) GR	←	(2, 5 ; 19) GR	E	127.711 31	−0.9	3398
* 4963	P (1, 6 ; 16) GR	←	(0, 7 ; 17) GR	A	127.717 38	−0.9	4368
* 4964	P (2, −1 ; 20) GR	←	(1, 0 ; 21) GR	E	127.733 37	−0.8	2038
* 4965	R (1, −5 ; 19) GR	←	(1, −4 ; 18) GR	E	127.832 63	−0.2	5145
* 4966	R (1, −8 ; 14) GR	←	(1, −7 ; 13) GR	E	127.838 95	−1.0	7087
* 4967	R (0, −10 ; 34) GR	←	(0, −9 ; 33) GR	E	127.906 93	1.4	6407
* 4968	R (1, 2 ; 33) GR	←	(1, 1 ; 32) GR	E	127.933 40	0.6	2330
4969	P (1, 9 ; 22) GR	←	(0, 10 ; 23) GR	A	128.012 11	−3.5	1456
* 4970	P (1, −6 ; 20) GR	←	(0, −7 ; 21) GR	E	128.041 61	−0.3	3495
* 4971	R (2, −5 ; 20) GR	←	(1, −6 ; 19) GR	E	128.099 87	−1.1	2038
* 4972	R (0, −11 ; 36) GR	←	(0, −10 ; 35) GR	E	128.162 60	0.0	1359
* 4973	P (2, 4 ; 14) GR	←	(1, 3 ; 15) GR	A	128.174 90	0.1	6019
* 4974	P (1, 11 ; 11) GR	←	(1, 10 ; 12) GR	A	128.230 83	3.6	1067
* 4975	R (1, 7 ; 10) GR	←	(1, 6 ; 9) GR	A	128.249 85	−0.7	8349
* 4976	P (2, −4 ; 5) GR	←	(1, −5 ; 6) GR	E	128.286 53	0.9	5728
* 4977	R (0, 12 ; 29) GR	←	(0, 11 ; 28) GR	E	128.352 44	−0.6	3203
* 4978	P (2, −5 ; 18) GR	←	(1, −4 ; 19) GR	E	128.374 09	−0.6	2912
* 4979	P (1, 5 ; 28) GR	←	(0, 6 ; 29) GR	E	128.487 30	3.1	1553
* 4980	P (1, 2 +; 26) GR	←	(0, 3 −; 27) GR	A	128.499 88	−1.8	2233
* 4981	P (3, −3 ; 16) GR	←	(2, −4 ; 17) GR	E	128.536 15	−0.1	4466
* 4982	R (0, 12 ; 28) GR	←	(0, 11 ; 27) GR	A	128.565 38	−0.5	4466
* 4983	P (2, −6 ; 21) GR	←	(2, −5 ; 22) GR	E	128.583 41	−0.9	1941
* 4984	P (1, 5 ; 17) GR	←	(0, 6 ; 18) GR	A	128.597 06	−0.4	0
* 4985	Q (1, 8 ; 25) GR	←	(0, 9 ; 25) GR	E	128.698 77	2.5	1941
* 4986	Q (1, 8 ; 24) GR	←	(0, 9 ; 24) GR	E	128.698 77	−2.5	1941
* 4987	Q (1, 8 ; 26) GR	←	(0, 9 ; 26) GR	E	128.702 18	−0.3	1941
* 4988	Q (1, 8 ; 23) GR	←	(0, 9 ; 23) GR	E	128.704 49	0.0	2038
* 4989	Q (1, 8 ; 27) GR	←	(0, 9 ; 27) GR	E	128.710 47	−2.5	1067
* 4990	Q (1, 8 ; 22) GR	←	(0, 9 ; 22) GR	E	128.714 37	0.5	1941
* 4991	Q (1, 8 ; 21) GR	←	(0, 9 ; 21) GR	E	128.728 33	−1.4	2135
* 4992	P (2, 3 ; 15) GR	←	(1, 2 ; 16) GR	E	128.732 13	−0.1	5242
* 4993	Q (1, 8 ; 20) GR	←	(0, 9 ; 20) GR	E	128.746 81	−0.4	2038
* 4994	Q (1, 8 ; 19) GR	←	(0, 9 ; 19) GR	E	128.768 84	−0.2	2524
* 4995	R (1, 10 ; 28) GR	←	(1, 9 ; 27) GR	A	128.778 60	1.2	3398
* 4996	R (0, 11 ; 31) GR	←	(0, 10 ; 30) GR	E	128.787 04	−1.1	2815
* 4997	Q (1, 8 ; 18) GR	←	(0, 9 ; 18) GR	E	128.794 46	−0.3	2524
* 4998	R (2, −1 ; 8) GR	←	(1, −2 ; 7) GR	E	128.802 10	−0.9	5339
* 4999	R (1, 10 ; 27) GR	←	(1, 8 ; 26) GR	A	128.814 88	−1.3	1747
* 5000	Q (1, 8 ; 17) GR	←	(0, 9 ; 17) GR	E	128.823 11	−0.4	2427
* 5001	Q (1, 8 ; 16) GR	←	(0, 9 ; 16) GR	E	128.854 29	−1.2	2524
* 5002	Q (1, 8 ; 15) GR	←	(0, 9 ; 15) GR	E	128.887 59	−0.3	2815
* 5003	R (1, 7 ; 16) GR	←	(1, 4 ; 15) GR	A	128.901 23	2.2	1262
* 5004	P (1, 2 −; 26) GR	←	(0, 3 +; 27) GR	A	128.909 71	0.5	2038
* 5005	Q (1, 8 ; 14) GR	←	(0, 9 ; 14) GR	E	128.922 28	0.4	2427
* 5006	P (1, 4 ; 17) GR	←	(0, 5 ; 18) G 4 R	E	128.949 05	−0.4	4757
* 5007	Q (1, 8 ; 13) GR	←	(0, 9 ; 13) GR	E	128.957 79	−0.1	2330
* 5008	R (1, 9 ; 21) GR	←	(1, 8 ; 20) GR	E	128.984 33	−0.1	5339
* 5009	Q (1, 8 ; 12) GR	←	(0, 9 ; 12) GR	E	128.993 78	−0.7	2524
* 5010	Q (1, 8 ; 11) GR	←	(0, 9 ; 11) GR	E	129.029 36	−0.2	2233
* 5011	Q (1, 8 ; 10) GR	←	(0, 9 ; 10) GR	E	129.063 91	−0.2	1747
* 5012	R (0, 13 ; 23) GR	←	(0, 12 ; 22) GR	A	129.093 08	−0.4	5728
* 5013	Q (1, 8 ; 9) GR	←	(0, 9 ; 9) GR	E	129.097 35	0.2	1747
* 5014	P (2, 5 ; 30) GR	←	(2, 4 ; 31) GR	A	129.160 63	0.4	1650
* 5015	P (1, −3 ; 20) GR	←	(0, −4 ; 21) GR	E	129.167 72	0.3	4271
* 5016	P (2, −2 ; 19) GR	←	(1, −1 ; 20) GR	E	129.211 78	0.5	4563
* 5017	R (1, 6 ; 10) GR	←	(1, 5 ; 9) GR	E	129.254 37	−0.5	7572
* 5018	P (3, 4 ; 17) GR	←	(2, 5 ; 18) GR	E	129.293 77	−0.1	3689
* 5019	P (2, −1 ; 19) GR	←	(1, 0 ; 20) GR	E	129.306 11	0.4	2038
* 5020	P (1, 6 ; 15) GR	←	(0, 7 ; 16) GR	A	129.392 20	−1.1	4951
* 5021	R (1, −5 ; 20) GR	←	(1, −4 ; 19) GR	E	129.409 85	0.1	4854
* 5022	R (1, −8 ; 15) GR	←	(1, −7 ; 14) GR	E	129.416 02	−0.1	6796
* 5023	R (0, −10 ; 35) GR	←	(0, −9 ; 34) GR	E	129.450 49	0.9	1844
5024	R (1, 2 ; 34) GR	←	(1, 1 ; 33) GR	E	129.602 61	9.3	3980
* 5025	P (1, 9 ; 21) GR	←	(0, 10 ; 22) GR	E	129.639 39	0.4	1067

Index	upper state T (n, K ; J) ν	←	lower state (n, K ; J) ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int /a.u
* 5026	R (2, −5 ; 21) GR	←	(1, −6 ; 20) GR	E	129.647 18	−0.3	1553
* 5027	R (0, −11 ; 37) GR	←	(0, −10 ; 36) GR	E	129.661 95	0.0	2714
* 5028	P (1, −6 ; 19) GR	←	(0, −7 ; 20) GR	E	129.694 74	−0.5	3495
* 5029	P (2, 4 ; 13) GR	←	(1, 3 ; 14) GR	A	129.770 32	−0.9	6310
* 5030	R (1, 7 ; 11) GR	←	(1, 6 ; 10) GR	A	129.825 88	−0.2	8349
* 5031	P (2, −4 ; 4) GR	←	(1, −5 ; 5) GR	E	129.866 94	−1.1	5922
* 5032	R (0, 12 ; 30) GR	←	(0, 11 ; 29) GR	E	129.882 16	0.0	2427
5033	P (1, 5 ; 27) GR	←	(0, 6 ; 28) GR	E	129.950 85	−2.4	1067
* 5034	P (2, −5 ; 17) GR	←	(1, −4 ; 18) GR	E	129.993 76	−0.3	3106
* 5035	P (3, −3 ; 15) GR	←	(2, −4 ; 16) GR	E	130.118 51	0.0	4466
* 5036	R (0, 12 ; 29) GR	←	(0, 11 ; 28) GR	A	130.128 65	−0.2	5048
* 5037	P (2, −6 ; 20) GR	←	(2, −5 ; 21) GR	E	130.154 70	0.1	2038
* 5038	P (1, 5 ; 16) GR	←	(0, 6 ; 17) GR	A	130.234 51	−1.0	6019
* 5039	P (1, 2 +; 25) GR	←	(0, 3 −; 26) GR	A	130.265 29	0.3	2718
* 5040	P (2, 3 ; 14) GR	←	(1, 2 ; 15) GR	E	130.328 76	−0.4	5242
* 5041	R (0, 11 ; 32) GR	←	(0, 10 ; 31) GR	E	130.345 70	−1.0	2330
* 5042	R (2, −1 ; 9) GR	←	(1, −2 ; 8) GR	E	130.359 35	0.0	5631
* 5043	R (1, 10 ; 29) GR	←	(1, 9 ; 28) GR	A	130.367 12	0.8	3106
* 5044	R (1, 7 ; 17) GR	←	(1, 4 ; 16) GR	A	130.411 86	−1.1	1359
* 5045	R (1, 10 ; 28) GR	←	(1, 8 ; 27) GR	A	130.422 87	−0.3	1067
* 5046	R (1, 9 ; 22) GR	←	(1, 8 ; 21) GR	E	130.494 61	−0.8	4757
* 5047	P (1, 4 ; 16) GR	←	(0, 5 ; 17) GR	E	130.590 18	−1.3	4757
* 5048	P (1, 2 −; 25) GR	←	(0, 3 +; 26) GR	A	130.600 60	−1.0	2621
* 5049	R (0, 13 ; 24) GR	←	(0, 12 ; 23) GR	A	130.644 25	−0.3	5339
* 5050	R (2, 3 ; 5) GR	←	(1, 4 ; 4) GR	A	130.720 68	−3.0	1456
* 5051	P (2, 5 ; 29) GR	←	(2, 4 ; 30) GR	A	130.738 62	0.6	1941
* 5052	R (1, 6 ; 11) GR	←	(1, 5 ; 10) GR	E	130.806 66	−0.5	7766
* 5053	P (2, −2 ; 18) GR	←	(1, −1 ; 19) GR	E	130.820 82	0.2	4854
* 5054	P (1, −3 ; 19) GR	←	(0, −4 ; 20) GR	E	130.824 99	0.0	4368
* 5055	P (3, 4 ; 16) GR	←	(2, 5 ; 17) GR	E	130.875 87	0.6	3689
* 5056	P (2, −1 ; 18) GR	←	(1, 0 ; 19) GR	E	130.880 94	−0.7	1650
* 5057	R (1, −5 ; 21) GR	←	(1, −4 ; 20) GR	E	130.988 02	−1.1	4757
* 5058	R (0, −10 ; 36) GR	←	(0, −9 ; 35) GR	E	130.992 62	−1.2	1747
* 5059	R (1, −8 ; 16) GR	←	(1, −7 ; 15) GR	E	130.996 14	−0.5	6893
* 5060	P (1, 6 ; 14) GR	←	(0, 7 ; 15) GR	A	131.055 76	−0.1	5242
* 5061	R (2, −5 ; 22) GR	←	(1, −6 ; 21) GR	E	131.194 72	−0.3	1844
* 5062	P (1, 9 ; 20) GR	←	(0, 10 ; 21) GR	E	131.265 84	−0.4	1067
* 5063	R (1, 2 ; 35) GR	←	(1, 1 ; 34) GR	E	131.279 75	1.1	1941
* 5064	P (1, −6 ; 18) GR	←	(0, −7 ; 19) GR	E	131.343 86	−1.1	3592
* 5065	P (2, 4 ; 12) GR	←	(1, 3 ; 13) GR	A	131.363 57	−0.1	5825
* 5066	Q (2, 3 ; 13) GR	←	(1, 6 ; 13) GR	A	131.391 32	1.5	1747
* 5067	Q (2, 3 ; 14) GR	←	(1, 6 ; 14) GR	A	131.405 48	0.4	8446
* 5068	R (1, 7 ; 12) GR	←	(1, 6 ; 11) GR	A	131.405 48	−0.1	8446
* 5069	R (0, 12 ; 31) GR	←	(0, 11 ; 30) GR	E	131.408 01	0.6	2524
* 5070	Q (2, 3 ; 15) GR	←	(1, 6 ; 15) GR	A	131.426 56	1.8	1941
* 5071	P (1, 5 ; 26) GR	←	(0, 6 ; 27) GR	E	131.426 56	−1.1	1941
* 5072	Q (2, 3 ; 16) GR	←	(1, 6 ; 16) GR	A	131.454 97	1.3	1456
* 5073	Q (2, 3 ; 17) GR	←	(1, 6 ; 17) GR	A	131.491 83	1.3	1067
* 5074	Q (2, 3 ; 18) GR	←	(1, 6 ; 18) GR	A	131.538 10	0.9	1456
* 5075	Q (2, 3 ; 19) GR	←	(1, 6 ; 19) GR	A	131.594 76	0.7	1553
* 5076	P (2, −5 ; 16) GR	←	(1, −4 ; 17) GR	E	131.609 20	−0.5	3203
* 5077	Q (2, 3 ; 20) GR	←	(1, 6 ; 20) GR	A	131.662 32	−0.7	1844
* 5078	R (0, 12 ; 30) GR	←	(0, 11 ; 29) GR	A	131.692 21	−0.8	4077
* 5079	P (3, −3 ; 14) GR	←	(2, −4 ; 15) GR	E	131.700 25	0.1	4660
* 5080	P (2, −6 ; 19) GR	←	(2, −5 ; 20) GR	E	131.725 71	0.8	1941
* 5081	Q (2, 3 ; 21) GR	←	(1, 6 ; 21) GR	A	131.741 96	−1.3	2135
* 5082	Q (2, 3 ; 22) GR	←	(1, 6 ; 22) GR	A	131.834 40	0.1	1553
* 5083	P (1, 5 ; 15) GR	←	(0, 6 ; 16) GR	A	131.869 73	−0.4	6699
* 5084	R (0, 11 ; 33) GR	←	(0, 10 ; 32) GR	E	131.904 54	0.5	1437
* 5085	R (1, 7 ; 18) GR	←	(1, 4 ; 17) GR	A	131.913 10	1.9	1844
* 5086	R (2, −1 ; 10) GR	←	(1, −2 ; 9) GR	E	131.915 78	−1.1	5728
* 5087	P (2, 3 ; 13) GR	←	(1, 2 ; 14) GR	E	131.923 36	−1.2	5339
* 5088	Q (2, 3 ; 23) GR	←	(1, 6 ; 23) GR	A	131.939 68	−0.9	1650
* 5089	R (1, 10 ; 30) GR	←	(1, 9 ; 29) GR	A	131.961 09	−0.8	3203
* 5090	R (1, 9 ; 23) GR	←	(1, 8 ; 22) GR	E	131.998 58	−0.2	4563
* 5091	P (1, 2 +; 24) GR	←	(0, 3 −; 25) GR	A	132.014 91	−2.2	2912
* 5092	R (1, 10 ; 29) GR	←	(1, 8 ; 28) GR	A	132.034 96	−0.9	2135
* 5093	Q (2, 3 ; 24) GR	←	(1, 6 ; 24) GR	A	132.058 98	0.9	1650
5094	Q (2, 3 ; 25) GR	←	(1, 6 ; 25) GR	A	132.191 58	−3.7	1941
* 5095	R (0, 13 ; 25) GR	←	(0, 12 ; 24) GR	A	132.193 55	0.6	4563
* 5096	P (1, 4 ; 15) GR	←	(0, 5 ; 16) GR	E	132.227 39	−0.6	5145
* 5097	R (2, 3 ; 6) GR	←	(1, 4 ; 5) GR	A	132.280 54	−0.2	2621
* 5098	P (1, 2 −; 24) GR	←	(0, 3 +; 25) GR	A	132.287 26	−0.7	2718
* 5099	P (2, 5 ; 28) GR	←	(2, 4 ; 29) GR	A	132.316 72	−0.8	2233
* 5100	Q (2, 3 ; 26) GR	←	(1, 6 ; 26) GR	A	132.339 36	−0.6	1941



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 5101	R (1, 6 ; 12) GR	←	(1, 5 ; 11) GR	E	132.351 55	−0.6	7281
* 5102	P (2, −2 ; 17) GR	←	(1, −1 ; 18) GR	E	132.427 50	−0.7	5339
* 5103	P (3, 4 ; 15) GR	←	(2, 5 ; 16) GR	E	132.457 99	3.9	9029
* 5104	P (2, −1 ; 17) GR	←	(1, 0 ; 18) GR	E	132.457 99	1.7	9029
* 5105	P (1, −3 ; 18) GR	←	(0, −4 ; 19) GR	E	132.477 64	−0.5	4660
* 5106	Q (2, 3 ; 27) GR	←	(1, 6 ; 27) GR	A	132.501 68	0.6	1747
* 5107	R (0, −10 ; 37) GR	←	(0, −9 ; 36) GR	E	132.533 59	−0.6	1359
* 5108	R (1, −5 ; 22) GR	←	(1, −4 ; 21) GR	E	132.567 31	−0.6	4951
* 5109	R (1, −8 ; 17) GR	←	(1, −7 ; 16) GR	E	132.579 88	−0.1	6796
* 5110	Q (2, 3 ; 28) GR	←	(1, 6 ; 28) GR	A	132.678 67	1.1	1747
* 5111	P (1, 6 ; 13) GR	←	(0, 7 ; 14) GR	A	132.708 69	−0.6	5436
5112	R (2, −5 ; 23) GR	←	(1, −6 ; 22) GR	E	132.742 22	−3.8	1650
* 5113	Q (2, 3 ; 29) GR	←	(1, 6 ; 29) GR	A	132.870 35	−0.2	1359
* 5114	P (1, 9 ; 19) GR	←	(0, 10 ; 20) GR	E	132.891 60	−0.8	1359
* 5115	P (1, 5 ; 25) GR	←	(0, 6 ; 26) GR	E	132.913 67	−1.5	1553
* 5116	R (0, 12 ; 32) GR	←	(0, 11 ; 31) GR	E	132.929 94	−0.4	1844
* 5117	P (2, 4 ; 11) GR	←	(1, 3 ; 12) GR	A	132.954 80	0.0	6116
* 5118	R (1, 2 ; 36) GR	←	(1, 1 ; 35) GR	E	132.966 81	0.1	1553
* 5119	P (1, −6 ; 17) GR	←	(0, −7 ; 18) GR	E	132.989 31	0.8	8349
* 5120	R (1, 7 ; 13) GR	←	(1, 6 ; 12) GR	A	132.989 31	−1.3	8349
5121	Q (2, 3 ; 30) GR	←	(1, 6 ; 30) GR	A	133.076 33	−5.6	2233
* 5122	P (2, −5 ; 15) GR	←	(1, −4 ; 16) GR	E	133.220 42	0.0	3398
* 5123	R (0, 12 ; 31) GR	←	(0, 11 ; 30) GR	A	133.256 38	1.0	3592
* 5124	P (3, −3 ; 13) GR	←	(2, −4 ; 14) GR	E	133.281 25	−0.2	4854
* 5125	P (2, −6 ; 18) GR	←	(2, −5 ; 19) GR	E	133.296 47	−0.8	2135
* 5126	Q (2, 3 ; 31) GR	←	(1, 6 ; 31) GR	A	133.298 88	0.2	1553
* 5127	R (1, 7 ; 19) GR	←	(1, 4 ; 18) GR	A	133.403 12	0.8	1747
* 5128	R (0, 11 ; 34) GR	←	(0, 10 ; 33) GR	E	133.462 79	−0.8	1650
* 5129	R (2, −1 ; 11) GR	←	(1, −2 ; 10) GR	E	133.471 59	−0.4	6213
* 5130	R (1, 9 ; 24) GR	←	(1, 8 ; 23) GR	E	133.496 47	−0.1	3883
* 5131	P (1, 5 ; 14) GR	←	(0, 6 ; 15) GR	A	133.501 64	−0.2	6699
* 5132	P (2, 3 ; 12) GR	←	(1, 2 ; 13) GR	E	133.515 84	0.2	5339
* 5133	R (1, 10 ; 31) GR	←	(1, 9 ; 30) GR	A	133.561 01	0.1	2815
* 5134	R (1, 10 ; 30) GR	←	(1, 8 ; 29) GR	A	133.651 31	−0.2	1456
* 5135	R (0, 13 ; 26) GR	←	(0, 12 ; 25) GR	A	133.740 94	−1.2	4951
* 5136	P (1, 2 +; 23) GR	←	(0, 3 −; 24) GR	A	133.750 04	0.2	3300
* 5137	R (2, 3 ; 7) GR	←	(1, 4 ; 6) GR	A	133.837 44	−0.2	4077
* 5138	P (1, 4 ; 14) GR	←	(0, 5 ; 15) GR	E	133.860 68	−0.9	5533
* 5139	R (1, 6 ; 13) GR	←	(1, 5 ; 12) GR	E	133.887 94	0.8	8155
* 5140	P (2, 5 ; 27) GR	←	(2, 4 ; 28) GR	A	133.894 87	−0.6	2427
* 5141	P (1, 2 −; 23) GR	←	(0, 3 +; 24) GR	A	133.969 48	−0.4	3106
* 5142	P (2, −2 ; 16) GR	←	(1, −1 ; 17) GR	E	134.031 78	0.0	5145
* 5143	P (2, −1 ; 16) GR	←	(1, 0 ; 17) GR	E	134.036 19	0.4	3009
* 5144	P (3, 4 ; 14) GR	←	(2, 5 ; 15) GR	E	134.038 58	0.0	4563
* 5145	R (0, −10 ; 38) GR	←	(0, −9 ; 37) GR	E	134.073 00	−0.5	1456
* 5146	P (1, −3 ; 17) GR	←	(0, −4 ; 18) GR	E	134.125 73	0.3	4854
* 5147	R (1, −5 ; 23) GR	←	(1, −4 ; 22) GR	E	134.147 75	−0.5	4174
* 5148	P (1, 8 ; 29) GR	←	(0, 9 ; 30) GR	A	134.165 57	−1.8	1553
* 5149	R (1, −8 ; 18) GR	←	(1, −7 ; 17) GR	E	134.167 82	0.2	6504
* 5150	Q (2, 4 ; 29) GR	←	(1, 5 ; 29) GR	A	134.256 26	−0.2	1262
* 5151	Q (2, 4 ; 28) GR	←	(1, 5 ; 28) GR	A	134.260 14	−0.5	1456
* 5152	Q (2, 4 ; 27) GR	←	(1, 5 ; 27) GR	A	134.266 40	0.1	2135
* 5153	Q (2, 4 ; 26) GR	←	(1, 5 ; 26) GR	A	134.274 42	−0.7	1456
* 5154	Q (2, 4 ; 25) GR	←	(1, 5 ; 25) GR	A	134.284 20	0.8	1747
* 5155	R (2, −5 ; 24) GR	←	(1, −6 ; 23) GR	E	134.291 00	−0.5	1844
* 5156	Q (2, 4 ; 24) GR	←	(1, 5 ; 24) GR	A	134.295 29	0.1	1941
* 5157	Q (2, 4 ; 23) GR	←	(1, 5 ; 23) GR	A	134.307 76	0.4	2330
* 5158	Q (2, 4 ; 22) GR	←	(1, 5 ; 22) GR	A	134.321 25	0.4	2330
* 5159	Q (2, 4 ; 21) GR	←	(1, 5 ; 21) GR	A	134.335 43	−0.7	3009
* 5160	Q (2, 4 ; 20) GR	←	(1, 5 ; 20) GR	A	134.350 70	0.0	0
* 5161	P (1, 6 ; 12) GR	←	(0, 7 ; 13) GR	A	134.352 06	−1.3	5145
* 5162	Q (2, 4 ; 19) GR	←	(1, 5 ; 19) GR	A	134.366 91	−1.9	3106
* 5163	Q (2, 4 ; 18) GR	←	(1, 5 ; 18) GR	A	134.388 41	−0.8	2718
* 5164	Q (2, 4 ; 17) GR	←	(1, 5 ; 17) GR	A	134.392 43	0.6	3398
* 5165	Q (2, 4 ; 16) GR	←	(1, 5 ; 16) GR	A	134.409 77	0.4	3592
* 5166	P (1, 5 ; 24) GR	←	(0, 6 ; 25) GR	E	134.412 16	−1.4	1941
* 5167	Q (2, 4 ; 15) GR	←	(1, 5 ; 15) GR	A	134.425 71	−0.4	0
* 5168	Q (2, 4 ; 14) GR	←	(1, 5 ; 14) GR	A	134.441 08	−0.7	4466
* 5169	Q (2, 4 ; 13) GR	←	(1, 5 ; 13) GR	A	134.455 89	−1.1	3883
* 5170	Q (2, 4 ; 12) GR	←	(1, 5 ; 12) GR	A	134.470 14	0.0	3883
* 5171	Q (2, 4 ; 11) GR	←	(1, 5 ; 11) GR	A	134.483 59	0.0	3980
* 5172	Q (2, 4 ; 10) GR	←	(1, 5 ; 10) GR	A	134.496 31	−0.4	3689
* 5173	Q (2, 4 ; 9) GR	←	(1, 5 ; 9) GR	A	134.508 15	0.6	3786
* 5174	P (1, 9 ; 18) GR	←	(0, 10 ; 19) GR	E	134.516 66	1.3	2233
* 5175	Q (2, 4 ; 8) GR	←	(1, 5 ; 8) GR	A	134.519 03	−0.2	3398

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 5176	Q (2, 4 ; 7) GR	←	(1, 5 ; 7) GR	A	134.528 96	0.9	3009
* 5177	Q (2, 4 ; 6) GR	←	(1, 5 ; 6) GR	A	134.537 68	0.0	2427
* 5178	P (2, 4 ; 10) GR	←	(1, 3 ; 11) GR	A	134.544 02	−0.2	6213
* 5179	Q (2, 4 ; 5) GR	←	(1, 5 ; 5) GR	A	134.545 39	0.2	0
* 5180	R (1, 7 ; 14) GR	←	(1, 6 ; 13) GR	A	134.578 51	−0.2	8543
* 5181	P (1, −6 ; 16) GR	←	(0, −7 ; 17) GR	E	134.630 47	−0.5	4368
* 5182	R (0, 12 ; 32) GR	←	(0, 11 ; 31) GR	A	134.821 47	0.0	3495
* 5183	P (2, −5 ; 14) GR	←	(1, −4 ; 15) GR	E	134.827 81	−0.3	3786
* 5184	P (3, −3 ; 12) GR	←	(2, −4 ; 13) GR	E	134.861 59	−0.6	5145
* 5185	P (2, −6 ; 17) GR	←	(2, −5 ; 18) GR	E	134.867 32	0.5	2621
* 5186	R (1, 7 ; 20) GR	←	(1, 4 ; 19) GR	A	134.881 68	−1.1	1747
* 5187	R (1, 9 ; 25) GR	←	(1, 8 ; 24) GR	E	134.987 99	−1.1	3786
* 5188	R (0, 11 ; 35) GR	←	(0, 10 ; 34) GR	E	135.021 06	0.0	1747
* 5189	R (2, −1 ; 12) GR	←	(1, −2 ; 11) GR	E	135.026 97	−0.6	6019
* 5190	P (2, 3 ; 11) GR	←	(1, 2 ; 12) GR	E	135.106 45	−1.0	5145
* 5191	P (1, 5 ; 13) GR	←	(0, 6 ; 14) GR	A	135.129 87	−1.1	6893
* 5192	R (1, 10 ; 32) GR	←	(1, 9 ; 31) GR	A	135.167 42	−1.0	2135
* 5193	P (2, 4 ; 30) GR	←	(2, 3 ; 31) GR	E	135.205 29	−2.1	2621
* 5194	R (1, 10 ; 31) GR	←	(1, 8 ; 30) GR	A	135.272 39	0.1	1067
* 5195	R (2, 3 ; 8) GR	←	(1, 4 ; 7) GR	A	135.391 17	−0.7	4368
* 5196	R (1, 6 ; 14) GR	←	(1, 5 ; 13) GR	E	135.413 81	−0.3	7184
* 5197	P (1, 2 +; 22) GR	←	(0, 3 −; 23) GR	A	135.471 73	−0.3	3495
* 5198	P (2, 5 ; 26) GR	←	(2, 4 ; 27) GR	A	135.473 10	−0.2	0
* 5199	P (1, 4 ; 13) GR	←	(0, 5 ; 14) GR	E	135.489 98	−0.9	5728
* 5200	P (2, −1 ; 15) GR	←	(1, 0 ; 16) GR	E	135.615 75	0.0	2233
* 5201	P (3, 4 ; 13) GR	←	(2, 5 ; 14) GR	E	135.619 20	0.2	4368
* 5202	P (2, −2 ; 15) GR	←	(1, −1 ; 16) GR	E	135.633 61	−0.1	5436
* 5203	P (1, 2 −; 22) GR	←	(0, 3 +; 23) GR	A	135.647 10	−0.5	3398
* 5204	R (1, −5 ; 24) GR	←	(1, −4 ; 23) GR	E	135.729 21	−0.4	3980
* 5205	R (1, −8 ; 19) GR	←	(1, −7 ; 18) GR	E	135.760 43	−0.6	6310
* 5206	P (1, −3 ; 16) GR	←	(0, −4 ; 17) GR	E	135.769 29	−2.0	4854
* 5207	R (2, −5 ; 25) GR	←	(1, −6 ; 24) GR	E	135.839 92	−3.1	1941
* 5208	P (1, 8 ; 28) GR	←	(0, 9 ; 29) GR	A	135.881 05	−1.1	1484
* 5209	Q (2, −4 ; 30) GR	←	(1, −5 ; 30) GR	E	135.882 34	−2.4	1747
* 5210	P (1, 5 ; 23) GR	←	(0, 6 ; 24) GR	E	135.921 89	−1.2	2038
* 5211	P (2, 5 ; 24) GR	←	(1, 6 ; 25) GR	E	135.972 23	2.2	776
* 5212	P (1, 6 ; 11) GR	←	(0, 7 ; 12) GR	A	135.986 76	0.6	5825
* 5213	Q (2, −4 ; 29) GR	←	(1, −5 ; 29) GR	E	136.050 73	0.7	2233
* 5214	P (2, 4 ; 9) GR	←	(1, 3 ; 10) GR	A	136.131 32	0.9	5922
* 5215	P (1, 9 ; 17) GR	←	(0, 10 ; 18) GR	E	136.139 62	−1.0	1456
* 5216	R (1, 7 ; 15) GR	←	(1, 6 ; 14) GR	A	136.173 82	0.1	8058
* 5217	Q (2, −4 ; 28) GR	←	(1, −5 ; 28) GR	E	136.207 88	−0.4	3203
* 5218	P (1, 1 ; 30) GR	←	(0, 2 ; 31) GR	E	136.255 80	−1.5	1165
* 5219	P (1, −6 ; 15) GR	←	(0, −7 ; 16) GR	E	136.267 82	−0.3	4951
* 5220	R (1, 7 ; 21) GR	←	(1, 4 ; 20) GR	A	136.348 25	0.2	1844
* 5221	Q (2, −4 ; 27) GR	←	(1, −5 ; 27) GR	E	136.355 00	−1.1	2718
* 5222	R (0, 12 ; 33) GR	←	(0, 11 ; 32) GR	A	136.387 35	−0.2	3009
* 5223	P (2, −5 ; 13) GR	←	(1, −4 ; 14) GR	E	136.431 59	−0.4	3689
* 5224	P (2, −6 ; 16) GR	←	(2, −5 ; 17) GR	E	136.437 84	−1.3	2233
* 5225	P (3, −3 ; 11) GR	←	(2, −4 ; 12) GR	E	136.441 17	−0.2	4951
* 5226	R (1, 9 ; 26) GR	←	(1, 8 ; 25) GR	E	136.473 66	−0.4	3689
5227	Q (2, −4 ; 26) GR	←	(1, −5 ; 26) GR	E	136.491 33	−5.5	7281
* 5228	R (2, −1 ; 13) GR	←	(1, −2 ; 12) GR	E	136.582 26	−0.2	6116
* 5229	Q (2, −4 ; 25) GR	←	(1, −5 ; 25) GR	E	136.619 02	−0.2	3495
* 5230	P (2, 3 ; 10) GR	←	(1, 2 ; 11) GR	E	136.695 20	0.1	5436
* 5231	Q (2, −4 ; 24) GR	←	(1, −5 ; 24) GR	E	136.736 56	0.1	3883
* 5232	P (1, 5 ; 12) GR	←	(0, 6 ; 13) GR	A	136.754 52	−0.6	6796
* 5233	R (1, 10 ; 33) GR	←	(1, 9 ; 32) GR	A	136.780 42	−1.7	2427
* 5234	P (2, 4 ; 29) GR	←	(2, 3 ; 30) GR	E	136.789 88	0.2	1456
* 5235	Q (2, −4 ; 23) GR	←	(1, −5 ; 23) GR	E	136.845 11	−0.1	3980
* 5236	R (1, 6 ; 15) GR	←	(1, 5 ; 14) GR	E	136.927 99	−0.1	6893
* 5237	R (2, 3 ; 9) GR	←	(1, 4 ; 8) GR	A	136.941 00	−1.7	4854
* 5238	Q (2, −4 ; 22) GR	←	(1, −5 ; 22) GR	E	136.944 93	0.6	4077
* 5239	Q (2, −4 ; 21) GR	←	(1, −5 ; 21) GR	E	137.036 36	−0.4	4368
* 5240	P (2, 5 ; 25) GR	←	(2, 4 ; 26) GR	A	137.051 17	−0.7	2815
* 5241	P (1, 4 ; 12) GR	←	(0, 5 ; 13) GR	E	137.115 48	−0.7	6019
* 5242	Q (2, −4 ; 20) GR	←	(1, −5 ; 20) GR	E	137.120 35	2.4	6699
* 5243	P (1, 2 +; 21) GR	←	(0, 3 −; 22) GR	A	137.181 08	−0.4	3980
* 5244	Q (2, −4 ; 19) GR	←	(1, −5 ; 19) GR	E	137.196 30	1.0	5825
* 5245	P (2, −1 ; 14) GR	←	(1, 0 ; 15) GR	E	137.196 30	−1.9	5825
* 5246	P (3, 4 ; 12) GR	←	(2, 5 ; 13) GR	E	137.199 05	−0.8	4951
* 5247	P (2, −2 ; 14) GR	←	(1, −1 ; 15) GR	E	137.233 27	0.0	5339
* 5248	Q (2, −4 ; 18) GR	←	(1, −5 ; 18) GR	E	137.265 30	−0.5	5145
* 5249	R (1, −5 ; 25) GR	←	(1, −4 ; 24) GR	E	137.311 75	−0.2	3689
* 5250	P (1, 2 −; 21) GR	←	(0, 3 +; 22) GR	A	137.319 94	−0.2	3592



Index	upper state T (, ;) ^{v}		lower state (, ;) ^{v}		$\tilde{\nu}$ cm^{-1}	$\tilde{\nu}\cdot 10^4$ cm^{-1}	Int. /a.u.
* 5251	Q (2, −4 ; 17)	GR	← (1, −5 ; 17)	GR	137 327 87	0 5	6019
* 5252	R (1, −8 ; 20)	GR	← (1, −7 ; 19)	GR	137 358 48	0 1	6407
* 5253	Q (2, −4 ; 16)	GR	← (1, −5 ; 16)	GR	137 383 88	−2 6	5339
* 5254	R (2, −5 ; 26)	GR	← (1, −6 ; 25)	GR	137 390 74	0 8	1553
* 5255	P (1, −3 ; 15)	GR	← (0, −4 ; 16)	GR	137 408 66	−0 3	5242
* 5256	Q (1, −7 ; 30)	GR	← (0, −8 ; 30)	GR	137 426 30	−1 8	970
* 5257	Q (2, −4 ; 15)	GR	← (1, −5 ; 15)	GR	137 434 89	0 0	5533
* 5258	P (1, 5 ; 22)	GR	← (0, 6 ; 23)	GR	137 442 79	1 2	2038
* 5259	Q (2, −4 ; 14)	GR	← (1, −5 ; 14)	GR	137 480 28	−0 1	5242
* 5260	P (2, 5 ; 23)	GR	← (1, 6 ; 24)	GR	137 496 69	2 2	1359
* 5261	Q (2, −4 ; 13)	GR	← (1, −5 ; 13)	GR	137 520 73	−0 3	6019
* 5262	Q (2, −4 ; 12)	GR	← (1, −5 ; 12)	GR	137 556 66	0 2	5533
* 5263	Q (2, −4 ; 11)	GR	← (1, −5 ; 11)	GR	137 588 31	−0 6	5533
* 5264	P (1, 8 ; 27)	GR	← (0, 9 ; 28)	GR	137 591 26	−3 4	1165
* 5265	P (1, 6 ; 10)	GR	← (0, 7 ; 11)	GR	137 613 40	0 4	6213
* 5266	Q (2, −4 ; 10)	GR	← (1, −5 ; 10)	GR	137 616 10	−1 3	6019
* 5267	Q (2, −4 ; 9)	GR	← (1, −5 ; 9)	GR	137 640 41	−0 6	5436
* 5268	Q (1, −7 ; 29)	GR	← (0, −8 ; 29)	GR	137 651 04	0 2	1262
* 5269	Q (2, −4 ; 8)	GR	← (1, −5 ; 8)	GR	137 661 60	0 7	5242
* 5270	Q (2, −4 ; 7)	GR	← (1, −5 ; 7)	GR	137 679 55	−0 8	4563
* 5271	Q (2, −4 ; 6)	GR	← (1, −5 ; 6)	GR	137 694 89	0 7	3883
* 5272	Q (2, −4 ; 5)	GR	← (1, −5 ; 5)	GR	137 707 47	−0 5	2621
* 5273	P (2, 4 ; 8)	GR	← (1, 3 ; 9)	GR	137 716 74	−0 4	5242
5274	P (1, 9 ; 16)	GR	← (0, 10 ; 17)	GR	137 760 92	−4 6	1090
* 5275	R (1, 7 ; 16)	GR	← (1, 6 ; 15)	GR	137 776 11	−0 9	8349
* 5276	R (1, 7 ; 22)	GR	← (1, 4 ; 21)	GR	137 801 66	−0 3	2330
* 5277	Q (1, −7 ; 28)	GR	← (0, −8 ; 28)	GR	137 862 52	−1 9	1262
5278	P (1, 1 ; 29)	GR	← (0, 2 ; 30)	GR	137 885 37	−5 3	3980
* 5279	P (1, −6 ; 14)	GR	← (0, −7 ; 15)	GR	137 901 30	−0 5	5145
* 5280	R (1, 9 ; 27)	GR	← (1, 8 ; 26)	GR	137 953 72	−0 1	4174
* 5281	P (2, −6 ; 15)	GR	← (2, −5 ; 16)	GR	138 008 45	−0 8	2427
* 5282	P (3, −3 ; 10)	GR	← (2, −4 ; 11)	GR	138 019 96	−0 3	5533
* 5283	P (2, −5 ; 12)	GR	← (1, −4 ; 13)	GR	138 032 05	−0 6	3495
* 5284	Q (1, −7 ; 27)	GR	← (0, −8 ; 27)	GR	138 061 81	1 1	1262
* 5285	R (2, −1 ; 14)	GR	← (1, −2 ; 13)	GR	138 137 76	−0 7	6407
* 5286	Q (1, −7 ; 26)	GR	← (0, −8 ; 26)	GR	138 248 50	−0 1	1844
* 5287	P (2, 3 ; 9)	GR	← (1, 2 ; 10)	GR	138 282 10	0 2	5048
* 5288	P (2, 4 ; 28)	GR	← (2, 3 ; 29)	GR	138 373 61	−1 7	2038
* 5289	P (1, 5 ; 11)	GR	← (0, 6 ; 12)	GR	138 375 45	−1 0	7378
* 5290	R (1, 10 ; 34)	GR	← (1, 9 ; 33)	GR	138 400 87	0 6	1844
5291	Q (1, −7 ; 25)	GR	← (0, −8 ; 25)	GR	138 423 01	−3 4	2135
* 5292	R (1, 6 ; 16)	GR	← (1, 5 ; 15)	GR	138 428 91	0 2	6990
* 5293	R (2, 3 ; 10)	GR	← (1, 4 ; 9)	GR	138 486 55	−0 1	5339
* 5294	Q (1, −7 ; 24)	GR	← (0, −8 ; 24)	GR	138 586 65	−0 2	1747
* 5295	P (2, 5 ; 24)	GR	← (2, 4 ; 25)	GR	138 629 30	−0 8	3495
* 5296	P (1, 4 ; 11)	GR	← (0, 5 ; 12)	GR	138 736 98	−0 9	5825
* 5297	Q (1, −7 ; 23)	GR	← (0, −8 ; 23)	GR	138 738 85	1 1	2038
5298	P (2, −1 ; 13)	GR	← (1, 0 ; 14)	GR	138 778 26	3 9	6310
* 5299	P (3, 4 ; 11)	GR	← (2, 5 ; 12)	GR	138 778 26	−2 1	6310
* 5300	P (2, −2 ; 13)	GR	← (1, −1 ; 14)	GR	138 830 87	1 2	5922
* 5301	P (1, 2 $^{+}$; 20)	GR	← (0, 3 $^{-}$; 21)	GR	138 879 35	0 9	5339
5302	Q (1, −7 ; 22)	GR	← (0, −8 ; 22)	GR	138 879 35	−4 7	5339
* 5303	R (1, −5 ; 26)	GR	← (1, −4 ; 25)	GR	138 895 45	0 2	3592
* 5304	R (2, −5 ; 27)	GR	← (1, −6 ; 26)	GR	138 942 05	−1 6	1456
* 5305	R (1, −8 ; 21)	GR	← (1, −7 ; 20)	GR	138 962 39	0 4	5728
* 5306	P (1, 5 ; 21)	GR	← (0, 6 ; 22)	GR	138 973 89	0 2	2621
* 5307	Q (1, −7 ; 21)	GR	← (0, −8 ; 21)	GR	139 010 76	−0 8	2427
* 5308	P (2, 5 ; 22)	GR	← (1, 6 ; 23)	GR	139 027 75	0 1	1359
* 5309	P (1, −3 ; 14)	GR	← (0, −4 ; 15)	GR	139 043 65	−0 1	5631
* 5310	Q (1, −7 ; 20)	GR	← (0, −8 ; 20)	GR	139 131 83	−0 6	2718
* 5311	P (1, 6 ; 9)	GR	← (0, 7 ; 10)	GR	139 232 59	−0 8	6504
* 5312	R (1, 7 ; 23)	GR	← (1, 4 ; 22)	GR	139 241 33	−2 5	2135
* 5313	Q (1, −7 ; 19)	GR	← (0, −8 ; 19)	GR	139 243 41	−1 0	2815
* 5314	P (1, 8 ; 26)	GR	← (0, 9 ; 27)	GR	139 296 47	−3 3	1747
* 5315	P (2, 4 ; 7)	GR	← (1, 3 ; 8)	GR	139 300 46	0 1	5533
* 5316	Q (1, −7 ; 18)	GR	← (0, −8 ; 18)	GR	139 346 07	−0 4	2815
* 5317	P (1, 9 ; 15)	GR	← (0, 10 ; 16)	GR	139 381 55	1 4	1650
* 5318	R (1, 7 ; 17)	GR	← (1, 6 ; 16)	GR	139 386 47	−0 7	8058
* 5319	R (1, 9 ; 28)	GR	← (1, 8 ; 27)	GR	139 428 08	−0 1	3009
* 5320	Q (1, −7 ; 17)	GR	← (0, −8 ; 17)	GR	139 440 20	−0 3	3106
5321	P (1, 1 ; 28)	GR	← (0, 2 ; 29)	GR	139 521 87	6 6	2621
* 5322	Q (1, −7 ; 16)	GR	← (0, −8 ; 16)	GR	139 526 44	−0 3	3203
* 5323	P (1, −6 ; 13)	GR	← (0, −7 ; 14)	GR	139 530 90	−0 6	5436
* 5324	P (2, −6 ; 14)	GR	← (2, −5 ; 15)	GR	139 579 06	1 2	2524
* 5325	P (3, −3 ; 9)	GR	← (2, −4 ; 10)	GR	139 597 92	0 1	5631

Index	upper state T (, ;) ^{v}		lower state (, ;) ^{v}		$\tilde{\nu}$ cm^{-1}	$\tilde{\nu}\cdot 10^4$ cm^{-1}	Int. /a.u.
* 5326	Q (1, −7 ; 15)	GR	← (0, −8 ; 15)	GR	139 604 73	−1 6	3300
* 5327	P (2, −5 ; 11)	GR	← (1, −4 ; 12)	GR	139 629 30	−1 0	3203
* 5328	Q (1, −7 ; 14)	GR	← (0, −8 ; 14)	GR	139 676 01	−0 7	3300
* 5329	R (2, −1 ; 15)	GR	← (1, −2 ; 14)	GR	139 693 73	−0 2	6116
* 5330	P (2, 8 ; 31)	GR	← (1, 7 ; 32)	GR	139 728 24	0 0	1067
* 5331	Q (1, −7 ; 13)	GR	← (0, −8 ; 13)	GR	139 740 60	0 2	3106
* 5332	Q (1, −7 ; 12)	GR	← (0, −8 ; 12)	GR	139 798 81	0 1	2815
* 5333	Q (1, −7 ; 11)	GR	← (0, −8 ; 11)	GR	139 850 91	−0 6	3883
* 5334	P (2, 3 ; 8)	GR	← (1, 2 ; 9)	GR	139 867 24	−0 9	5242
* 5335	Q (1, −7 ; 10)	GR	← (0, −8 ; 10)	GR	139 897 77	1 6	2427
* 5336	R (1, 6 ; 17)	GR	← (1, 5 ; 16)	GR	139 914 77	0 7	7184
* 5337	Q (1, −7 ; 9)	GR	← (0, −8 ; 9)	GR	139 938 80	−1 3	2038
* 5338	P (2, 4 ; 27)	GR	← (2, 3 ; 28)	GR	139 958 26	1 8	1553
5339	Q (1, −7 ; 8)	GR	← (0, −8 ; 8)	GR	139 974 57	−5 5	1747
* 5340	P (1, 5 ; 10)	GR	← (0, 6 ; 11)	GR	139 992 71	−0 6	7475
* 5341	R (2, 3 ; 11)	GR	← (1, 4 ; 10)	GR	140 026 94	−0 9	5922
* 5342	R (1, 10 ; 35)	GR	← (1, 9 ; 34)	GR	140 029 26	0 2	1456
5343	P (2, 5 ; 23)	GR	← (2, 4 ; 24)	GR	140 206 89	−3 7	3689
* 5344	P (2, −3 ; 29)	GR	← (2, −2 ; 30)	GR	140 341 99	−0 7	1553
* 5345	P (1, 4 ; 10)	GR	← (0, 5 ; 11)	GR	140 354 71	−0 5	6893
* 5346	P (3, 4 ; 10)	GR	← (2, 5 ; 11)	GR	140 357 13	−0 8	5825
* 5347	P (2, −1 ; 12)	GR	← (1, 0 ; 13)	GR	140 359 43	−2 8	3203
* 5348	P (2, −2 ; 12)	GR	← (1, −1 ; 13)	GR	140 426 63	4 3	7961
* 5349	R (1, −5 ; 27)	GR	← (1, −4 ; 26)	GR	140 479 85	−0 4	3398
* 5350	R (2, −5 ; 28)	GR	← (1, −6 ; 27)	GR	140 495 42	−1 3	1067
* 5351	P (1, 5 ; 20)	GR	← (0, 6 ; 21)	GR	140 514 94	−2 4	2427
5352	P (2, 5 ; 21)	GR	← (1, 6 ; 22)	GR	140 566 76	10 7	4951
* 5353	P (1, 2 $^{+}$; 19)	GR	← (0, 3 $^{-}$; 20)	GR	140 566 76	−1 3	4951
* 5354	R (1, −8 ; 22)	GR	← (1, −7 ; 21)	GR	140 572 81	−0 1	5825
* 5355	P (1, 2 $^{-}$; 19)	GR	← (0, 3 $^{+}$; 20)	GR	140 651 38	0 2	4466
* 5356	R (1, 7 ; 24)	GR	← (1, 4 ; 23)	GR	140 667 63	0 4	1650
* 5357	P (1, −3 ; 13)	GR	← (0, −4 ; 14)	GR	140 674 33	0 1	5533
* 5358	P (1, 6 ; 8)	GR	← (0, 7 ; 9)	GR	140 845 30	−0 8	6504
* 5359	P (2, 4 ; 6)	GR	← (1, 3 ; 7)	GR	140 882 39	−0 2	4368
* 5360	R (1, 9 ; 29)	GR	← (1, 8 ; 28)	GR	140 897 47	−0 5	2233
* 5361	P (1, 8 ; 25)	GR	← (0, 9 ; 26)	GR	140 996 68	−0 3	2012
5362	P (1, 9 ; 14)	GR	← (0, 10 ; 15)	GR	140 998 72	−6 6	3398
* 5363	R (1, 7 ; 18)	GR	← (1, 6 ; 17)	GR	141 005 68	−0 3	7961
* 5364	P (2, −6 ; 13)	GR	← (2, −5 ; 14)	GR	141 149 33	−0 4	2524
* 5365	P (1, −6 ; 12)	GR	← (0, −7 ; 13)	GR	141 156 64	−0 9	5533
5366	P (1, 1 ; 27)	GR	← (0, 2 ; 28)	GR	141 162 14	−3 1	1844
* 5367	P (3, −3 ; 8)	GR	← (2, −4 ; 9)	GR	141 175 05	−0 1	5728
* 5368	P (2, −5 ; 10)	GR	← (1, −4 ; 11)	GR	141 223 70	−0 6	3300
* 5369	R (2, −1 ; 16)	GR	← (1, −2 ; 15)	GR	141 250 67	−0 1	6116
* 5370	P (2, 8 ; 30)	GR	← (1, 7 ; 31)	GR	141 346 21	−2 2	1747
* 5371	R (1, 6 ; 18)	GR	← (1, 5 ; 17)	GR	141 384 16	−1 9	6796
* 5372	P (2, 3 ; 7)	GR	← (1, 2 ; 8)	GR	141 450 70	−0 5	4563
* 5373	P (2, 4 ; 26)	GR	← (2, 3 ; 27)	GR	141 542 14	−0 4	2135
* 5374	R (2, 3 ; 12)	GR	← (1, 4 ; 11)	GR	141 561 52	−1 5	6116
* 5375	P (1, 5 ; 9)	GR	← (0, 6 ; 10)	GR	141 606 23	−0 4	7572
* 5376	R (1, 10 ; 36)	GR	← (1, 9 ; 35)	GR	141 665 34	0 0	1165
* 5377	P (2, 5 ; 22)	GR	← (2, 4 ; 23)	GR	141 785 18	−1 1	3786
* 5378	P (2, −3 ; 28)	GR	← (2, −2 ; 29)	GR	141 927 94	1 0	1650
* 5379	P (3, 4 ; 9)	GR	← (2, 5 ; 10)	GR	141 935 02	0 0	5242
* 5380	P (2, −1 ; 11)	GR	← (1, 0 ; 12)	GR	141 941 68	−1 4	2815
* 5381	P (1, 4 ; 9)	GR	← (0, 5 ; 10)	GR	141 968 43	−0 9	6504
* 5382	P (2, −2 ; 11)	GR	← (1, −1 ; 12)	GR	142 019 38	−0 4	5631
* 5383	R (2, −5 ; 29)	GR	← (1, −6 ; 28)	GR	142 050 03	−0 7	1067
* 5384	Q (1, 10 ; 23)	GR	← (0, 11 ; 23)	GR	142 061 98	−2 0	1262
* 5385	R (1, −5 ; 28)	GR	← (1, −4 ; 27)	GR	142 065 46	0 5	4271
5386	P (1, 5 ; 19)	GR	← (0, 6 ; 20)	GR	142 065 46	−5 3	4271
* 5387	R (1, 7 ; 25)	GR	← (1, 4 ; 24)	GR	142 079 38	−1 0	1844
* 5388	P (2, 5 ; 20)	GR	← (1, 6 ; 21)	GR	142 110 35	1 0	1650
* 5389	Q (1, 10 ; 22)	GR	← (0, 11 ; 22)	GR	142 118 85	0 7	1165
* 5390	Q (1, 10 ; 21)	GR	← (0, 11 ; 21)	GR	142 175 28	−1 5	1067
* 5391	R (1, −8 ; 23)	GR	← (1, −7 ; 22)	GR	142 190 44	0 2	5631
* 5392	P (1, 2 $^{+}$; 18)	GR	← (0, 3 $^{-}$; 19)	GR	142 244 98	−0 8	4563
* 5393	Q (1, 10 ; 19)	GR	← (0, 11 ; 19)	GR	142 286 87	−2 0	1844
* 5394	P (1, −3 ; 12)	GR	← (0, −4 ; 13)	GR	142 300 88	− 6	6213
* 5395	P (1, 2 $^{-}$; 18)	GR	← (0, 3 $^{+}$; 19)	GR	142 309 71	−1 3	5145
* 5396	Q (1, 10 ; 18)	GR	← (0, 11 ; 18)	GR	142 341 60	−0 2	1941
* 5397	R (1, 9 ; 30)	GR	← (1, 8 ; 29)	GR	142 362 17	−1 3	2233
* 5398	Q (1, 10 ; 17)	GR	← (0, 11 ; 17)	GR	142 394 77	−0 2	1941
* 5399	Q (1, 10 ; 16)	GR	← (0, 11 ; 16)	GR	142 446 42	−1 2	1650
* 5400	P (1, 6 ; 7)	GR	← (0, 7 ; 8)	GR	142 452 15	−1 6	6310



Index	upper state T (, ;) ^{v}	lower state (, ;) ^{v}	$\tilde{\nu}$ cm^{-1}	$\tilde{\nu}\cdot 10^4$ cm^{-1}	Int. /a.u.
* 5401	P (2, 4 ; 5) GR	← (1, 3 ; 6) GR	142 462 64	0 5	3883
* 5402	Q (1, 10 ; 15) GR	← (0, 11 ; 15) GR	142 496 30	−0 7	1165
* 5403	Q (1, 10 ; 14) GR	← (0, 11 ; 14) GR	142 544 49	0 0	1262
* 5404	Q (1, 10 ; 13) GR	← (0, 11 ; 13) GR	142 590 44	1 3	6310
* 5405	P (1, 9 ; 13) GR	← (0, 10 ; 14) GR	142 615 41	−0 2	1844
5406	Q (1, 10 ; 12) GR	← (0, 11 ; 12) GR	142 634 60	11 2	7669
* 5407	R (1, 7 ; 19) GR	← (1, 6 ; 18) GR	142 634 60	0 2	7669
* 5408	P (1, 8 ; 24) GR	← (0, 9 ; 25) GR	142 691 55	−0 7	2621
* 5409	P (2, −6 ; 12) GR	← (2, −5 ; 13) GR	142 719 77	−0 2	2330
* 5410	P (3, 1 ; 31) GR	← (2, 0 ; 32) GR	142 739 34	1 2	776
* 5411	P (3, −3 ; 7) GR	← (2, −4 ; 8) GR	142 751 44	−1 2	6019
* 5412	P (1, −6 ; 11) GR	← (0, −7 ; 12) GR	142 778 43	−0 6	5533
* 5413	R (2, −1 ; 17) GR	← (1, −2 ; 16) GR	142 808 87	0 5	6796
5414	P (1, 1 ; 26) GR	← (0, 2 ; 27) GR	142 808 87	−4 9	6796
* 5415	P (2, −5 ; 9) GR	← (1, −4 ; 10) GR	142 815 28	−0 1	330
* 5416	R (1, 6 ; 19) GR	← (1, 5 ; 18) GR	142 836 03	−1 2	6310
* 5417	P (2, 8 ; 29) GR	← (1, 7 ; 30) GR	142 963 12	0 2	1262
* 5418	P (2, 3 ; 6) GR	← (1, 2 ; 7) GR	143 032 52	−0 5	4368
* 5419	R (2, 3 ; 13) GR	← (1, 4 ; 12) GR	143 089 56	−0 5	6310
* 5420	P (1, 0 ; 30) GR	← (0, 1 ; 31) GR	143 099 83	−1 0	3106
5421	P (2, 4 ; 25) GR	← (2, 3 ; 26) GR	143 125 06	−7 3	2524
* 5422	P (1, 5 ; 8) GR	← (0, 6 ; 9) GR	143 215 86	−0 9	7766
* 5423	P (2, 5 ; 21) GR	← (2, 4 ; 22) GR	143 362 99	−0 6	3980
* 5424	R (1, 7 ; 26) GR	← (1, 4 ; 25) GR	143 476 67	0 1	2427
* 5425	P (3, 4 ; 8) GR	← (2, 5 ; 9) GR	143 512 08	−0 2	5145
* 5426	P (2, −3 ; 27) GR	← (2, −2 ; 28) GR	143 513 94	−0 3	1747
* 5427	P (2, −1 ; 10) GR	← (1, 0 ; 11) GR	143 524 00	1 6	3592
* 5428	P (1, 4 ; 8) GR	← (0, 5 ; 9) GR	143 578 38	−0 5	6407
5429	R (2, −5 ; 30) GR	← (1, −6 ; 29) GR	143 606 85	−4 7	2621
* 5430	P (2, −2 ; 10) GR	← (1, −1 ; 11) GR	143 610 70	−1 0	5533
* 5431	P (1, 5 ; 18) GR	← (0, 6 ; 19) GR	143 625 25	−0 8	3009
* 5432	R (1, −5 ; 2) GR	← (1, −4 ; 28) GR	143 651 42	1 0	2330
* 5433	P (2, 5 ; 19) GR	← (1, 6 ; 20) GR	143 660 90	−0 5	1650
* 5434	R (1, −8 ; 24) GR	← (1, −7 ; 23) GR	143 815 78	−0 5	5048
* 5435	R (1, 9 ; 31) GR	← (1, 8 ; 30) GR	143 822 79	1 5	3980
* 5436	P (1, 2 $^{+}$; 17) GR	← (0, 3 $^{-}$; 18) GR	143 914 27	−0 5	4757
* 5437	P (1, −3 ; 11) GR	← (0, −4 ; 12) GR	143 923 32	−1 0	6019
* 5438	P (1, 2 $^{-}$; 17) GR	← (0, 3 $^{+}$; 18) GR	143 963 29	−1 0	4757
* 5439	P (2, 4 ; 4) GR	← (1, 3 ; 5) GR	144 041 20	0 1	2135
* 5440	P (1, 6 ; 6) GR	← (0, 7 ; 7) GR	144 053 66	0 0	6407
* 5441	P (1, 9 ; 12) GR	← (0, 10 ; 13) GR	144 229 09	−1 2	2233
* 5442	R (1, 6 ; 20) GR	← (1, 5 ; 19) GR	144 268 78	−0 5	6116
* 5443	R (1, 7 ; 20) GR	← (1, 6 ; 19) GR	144 274 30	0 1	7184
* 5444	P (2, −6 ; 11) GR	← (2, −5 ; 12) GR	144 289 92	−1 1	2427
* 5445	P (3, −3 ; 6) GR	← (2, −4 ; 7) GR	144 326 72	1 0	6116
* 5446	P (3, 1 ; 30) GR	← (2, 0 ; 31) GR	144 339 18	−2 8	875
* 5447	R (2, −1 ; 18) GR	← (1, −2 ; 17) GR	144 368 67	−0 3	5533
* 5448	P (1, 8 ; 23) GR	← (0, 9 ; 24) GR	144 381 61	−0 2	2233
* 5449	P (1, −6 ; 10) GR	← (0, −7 ; 11) GR	144 396 32	−0 8	6116
* 5450	P (2, −5 ; 8) GR	← (1, −4 ; 9) GR	144 404 27	−0 7	2524
* 5451	P (2, 3 ; 21) GR	← (1, 4 ; 22) GR	144 458 91	1 2	679
* 5452	P (1, 1 ; 25) GR	← (0, 2 ; 26) GR	144 462 08	0 9	2038
* 5453	P (2, 8 ; 28) GR	← (1, 7 ; 29) GR	144 578 02	0 1	1941
* 5454	R (2, 3 ; 14) GR	← (1, 4 ; 13) GR	144 609 78	−2 6	8640
* 5455	P (2, 3 ; 5) GR	← (1, 2 ; 6) GR	144 612 58	−0 7	3786
* 5456	P (2, 4 ; 24) GR	← (2, 3 ; 25) GR	144 709 38	−0 9	2912
* 5457	P (1, 0 ; 29) GR	← (0, 1 ; 30) GR	144 819 39	0 6	2912
* 5458	P (1, 5 ; 7) GR	← (0, 6 ; 8) GR	144 821 79	−1 2	7572
* 5459	R (1, 7 ; 27) GR	← (1, 4 ; 26) GR	144 859 20	−1 1	1941
* 5460	P (2, 5 ; 20) GR	← (2, 4 ; 21) GR	144 940 70	−0 9	4563
* 5461	P (3, 4 ; 7) GR	← (2, 5 ; 8) GR	145 088 25	0 9	5242
* 5462	P (2, −3 ; 26) GR	← (2, −2 ; 27) GR	145 099 48	−1 1	1844
* 5463	P (2, −1 ; 9) GR	← (1, 0 ; 10) GR	145 105 46	−0 2	2621
* 5464	R (2, −5 ; 31) GR	← (1, −6 ; 30) GR	145 166 62	0 2	970
* 5465	P (1, 4 ; 7) GR	← (0, 5 ; 8) GR	145 184 39	−1 0	6310
* 5466	P (1, 5 ; 17) GR	← (0, 6 ; 18) GR	145 193 00	−1 8	3300
* 5467	P (2, −2 ; 9) GR	← (1, −1 ; 10) GR	145 199 98	−1 0	5436
* 5468	P (2, 5 ; 18) GR	← (1, 6 ; 19) GR	145 217 69	−0 4	1844
* 5469	R (1, −5 ; 30) GR	← (1, −4 ; 29) GR	145 238 10	0 3	1941
* 5470	R (1, 9 ; 32) GR	← (1, 8 ; 31) GR	145 279 00	−0 1	1456
* 5471	R (1, −8 ; 25) GR	← (1, −7 ; 24) GR	145 449 57	0 1	5145
5472	R (2, 4 ; 7) GR	← (1, 5 ; 6) GR	145 517 01	3 6	499
* 5473	P (1, −3 ; 10) GR	← (0, −4 ; 11) GR	145 541 66	−0 9	6019
* 5474	P (1, 2 $^{+}$; 16) GR	← (0, 3 $^{-}$; 17) GR	145 575 35	0 7	5242
* 5475	P (1, 2 $^{-}$; 16) GR	← (0, 3 $^{+}$; 17) GR	145 612 00	−1 5	5728

Index	upper state T (, ;) ^{v}	lower state (, ;) ^{v}	$\tilde{\nu}$ cm^{-1}	$\tilde{\nu}\cdot 10^4$ cm^{-1}	Int. /a.u.
* 5476	R (1, 6 ; 21) GR	← (1, 5 ; 20) GR	145 681 38	0 3	6019
* 5477	P (1, 9 ; 11) GR	← (0, 10 ; 12) GR	145 840 51	0 4	1941
* 5478	P (2, −6 ; 10) GR	← (2, −5 ; 11) GR	145 860 25	−0 1	2135
* 5479	P (3, −3 ; 5) GR	← (2, −4 ; 6) GR	145 901 28	−1 0	5631
* 5480	P (1, 9 ; 23) GR	← (0, 9 ; 24) GR	145 923 00	−1 3	1359
* 5481	R (1, 7 ; 21) GR	← (1, 6 ; 20) GR	145 925 28	−0 5	6893
* 5482	R (2, −1 ; 19) GR	← (1, −2 ; 18) GR	145 930 65	−0 2	5728
* 5483	P (3, 1 ; 29) GR	← (2, 0 ; 30) GR	145 939 08	0 3	1306
* 5484	P (2, −5 ; 7) GR	← (1, −4 ; 8) GR	145 990 73	−0 2	2330
* 5485	P (1, −6 ; 9) GR	← (0, −7 ; 10) GR	146 010 29	0 2	6116
* 5486	P (2, 3 ; 20) GR	← (1, 4 ; 21) GR	146 031 95	0 3	1165
* 5487	P (1, 8 ; 22) GR	← (0, 9 ; 23) GR	146 066 63	−1 6	3398
* 5488	P (1, 1 ; 24) GR	← (0, 2 ; 25) GR	146 120 41	−1 8	2427
* 5489	R (2, 3 ; 15) GR	← (1, 4 ; 14) GR	146 122 25	0 3	6213
* 5490	P (2, 8 ; 27) GR	← (1, 7 ; 28) GR	146 191 08	−0 9	3689
* 5491	P (2, 3 ; 4) GR	← (1, 2 ; 5) GR	146 191 08	−1 2	3689
* 5492	R (1, 7 ; 28) GR	← (1, 4 ; 27) GR	146 226 90	−1 3	1844
* 5493	P (2, 4 ; 23) GR	← (2, 3 ; 24) GR	146 292 73	−0 8	2718
* 5494	P (1, 5 ; 6) GR	← (0, 6 ; 7) GR	146 423 91	−1 0	7766
* 5495	P (2, 5 ; 19) GR	← (2, 4 ; 20) GR	146 518 25	−0 4	4660
* 5496	P (1, 0 ; 28) GR	← (0, 1 ; 29) GR	146 539 83	0 4	3106
* 5497	Q (1, 11 ; 32) GR	← (1, 10 ; 32) GR	146 596 92	−0 6	2038
* 5498	Q (1, 11 ; 31) GR	← (1, 10 ; 31) GR	146 649 33	0 9	2233
* 5499	P (3, 4 ; 6) GR	← (2, 5 ; 7) GR	146 663 57	−0 1	5728
* 5500	P (2, −3 ; 25) GR	← (2, −2 ; 26) GR	146 685 08	−0 8	2427
* 5501	P (2, −1 ; 8) GR	← (1, 0 ; 9) GR	146 686 87	−0 7	3009
* 5502	Q (1, 11 ; 30) GR	← (1, 10 ; 30) GR	146 697 13	0 2	2427
* 5503	R (1, 9 ; 33) GR	← (1, 8 ; 32) GR	146 732 28	1 1	1747
* 5504	Q (1, 11 ; 29) GR	← (1, 10 ; 29) GR	146 740 41	0 1	4854
* 5505	P (1, 5 ; 16) GR	← (0, 6 ; 17) GR	146 767 75	−1 2	3300
* 5506	Q (1, 11 ; 28) GR	← (1, 10 ; 28) GR	146 779 85	−0 1	3883
* 5507	P (2, 5 ; 17) GR	← (1, 6 ; 18) GR	146 779 85	−1 1	3883
* 5508	P (1, 4 ; 6) GR	← (0, 5 ; 7) GR	146 786 89	2 0	8155
* 5509	P (2, −2 ; 8) GR	← (1, −1 ; 9) GR	146 786 89	−4 7	8155
* 5510	Q (1, 11 ; 27) GR	← (1, 10 ; 27) GR	146 815 28	0 9	3398
* 5511	R (1, −5 ; 31) GR	← (1, −4 ; 30) GR	146 825 38	1 3	1941
* 5512	Q (1, 11 ; 26) GR	← (1, 10 ; 26) GR	146 847 26	0 5	3495
* 5513	Q (1, 11 ; 25) GR	← (1, 10 ; 25) GR	146 875 88	0 9	3689
* 5514	Q (1, 11 ; 24) GR	← (1, 10 ; 24) GR	146 901 43	−0 2	4174
* 5515	Q (1, 11 ; 23) GR	← (1, 10 ; 23) GR	146 924 22	−0 4	4174
* 5516	Q (1, 11 ; 22) GR	← (1, 10 ; 22) GR	146 944 27	−1 1	4368
* 5517	Q (1, 11 ; 21) GR	← (1, 10 ; 21) GR	146 961 87	−0 4	4660
* 5518	Q (1, 11 ; 20) GR	← (1, 10 ; 20) GR	146 977 35	0 1	4563
* 5519	Q (1, 11 ; 19) GR	← (1, 10 ; 19) GR	146 990 81	0 5	5048
* 5520	Q (1, 11 ; 18) GR	← (1, 10 ; 18) GR	147 002 39	0 8	4951
* 5521	Q (1, 11 ; 17) GR	← (1, 10 ; 17) GR	147 012 31	0 4	4951
* 5522	Q (1, 11 ; 16) GR	← (1, 10 ; 16) GR	147 020 82	−0 8	4854
* 5523	Q (1, 11 ; 15) GR	← (1, 10 ; 15) GR	147 027 94	0 8	4854
* 5524	Q (1, 11 ; 14) GR	← (1, 10 ; 14) GR	147 033 99	−0 1	4563
* 5525	Q (1, 11 ; 13) GR	← (1, 10 ; 13) GR	147 038 66	−0 6	4563
* 5526	Q (1, 11 ; 12) GR	← (1, 10 ; 12) GR	147 042 90	−2 1	3786
* 5527	Q (1, 11 ; 11) GR	← (1, 10 ; 11) GR	147 045 85	−3 7	2815
* 5528	R (1, 6 ; 22) GR	← (1, 5 ; 21) GR	147 072 70	−1 1	7864
5529	R (2, 4 ; 8) GR	← (1, 5 ; 7) GR	147 075 16	−4 2	2600
* 5530	R (1, −8 ; 26) GR	← (1, −7 ; 25) GR	147 092 19	0 2	4271
* 5531	P (1, −3 ; 9) GR	← (0, −4 ; 10) GR	147 156 00	−0 5	6407
* 5532	P (1, 2 $^{+}$; 15) GR	← (0, 3 $^{-}$; 16) GR	147 228 82	0 1	5631
* 5533	P (1, 2 $^{-}$; 15) GR	← (0, 3 $^{+}$; 16) GR	147 256 16	1 9	7281
* 5534	P (2, −6 ; 9) GR	← (2, −5 ; 10) GR	147 430 52	2 0	4951
* 5535	P (1, 9 ; 10) GR	← (0, 10 ; 11) GR	147 449 11	−0 4	2524
5536	P (3, −3 ; 4) GR	← (2, −4 ; 5) GR	147 475 33	3 5	7281
* 5537	R (2, −1 ; 20) GR	← (1, −2 ; 19) GR	147 495 11	−0 7	5825
* 5538	Q (2, 2 ; 24) GR	← (2, 1 ; 24) GR	147 501 85	−0 7	5533
* 5539	Q (2, 2 ; 23) GR	← (2, 1 ; 23) GR	147 523 41	−0 6	5922
* 5540	P (3, 1 ; 28) GR	← (2, 0 ; 29) GR	147 537 66	−0 6	1747
* 5541	Q (2, 2 ; 22) GR	← (2, 1 ; 22) GR	147 543 86	−2 3	5922
* 5542	Q (2, 2 ; 21) GR	← (2, 1 ; 21) GR	147 563 15	−0 3	6116
* 5543	P (2, −5 ; 6) GR	← (1, −4 ; 7) GR	147 575 06	−0 4	1747
* 5544	R (1, 7 ; 29) GR	← (1, 4 ; 28) GR	147 579 65	−2 2	0
5545	P (1, 9 ; 22) GR	← (0, 9 ; 23) GR	147 581 41	5 7	6213
* 5546	Q (2, 2 ; 20) GR	← (2, 1 ; 20) GR	147 581 41	−0 4	6213
* 5547	R (1, 7 ; 22) GR	← (1, 6 ; 21) GR	147 588 37	−0 7	7378
* 5548	Q (2, 2 ; 19) GR	← (2, 1 ; 19) GR	147 598 67	−0 6	6504
* 5549	P (2, 3 ; 19) GR	← (1, 4 ; 20) GR	147 606 79	1 6	1067
* 5550	Q (2, 2 ; 18) GR	← (2, 1 ; 18) GR	147 614 80	−0 8	6699



Index	upper state		lower state			$\tilde{\nu}$	$\delta\tilde{\nu}\cdot 10^4$	Int.
	T $(n, K; J)^{v}$		$(n, K; J)^{v}$		σ	/cm^{-1}	/cm^{-1}	/a.u.
* 5551	P (1, −6 ; 8)	GR	(0, −7 ; 9)	GR	E	147.620 41	−0.8	6019
* 5552	R (2, 3 ; 16)	GR	(1, 4 ; 15)	GR	A	147.625 20	−0.8	6310
* 5553	Q (2, 2 ; 17)	GR	(2, 1 ; 17)	GR	E	147.630 11	0.1	6601
* 5554	Q (2, 2 ; 16)	GR	(2, 1 ; 16)	GR	E	147.644 27	−0.3	6601
* 5555	Q (2, 2 ; 15)	GR	(2, 1 ; 15)	GR	E	147.657 53	−0.7	6796
* 5556	Q (2, 2 ; 14)	GR	(2, 1 ; 14)	GR	E	147.669 76	−0.1	6699
* 5557	Q (2, 2 ; 13)	GR	(2, 1 ; 13)	GR	E	147.681 13	−0.5	7281
* 5558	Q (2, 2 ; 12)	GR	(2, 1 ; 12)	GR	E	147.691 54	0.0	7281
* 5559	Q (2, 2 ; 11)	GR	(2, 1 ; 11)	GR	E	147.701 04	0.1	7087
* 5560	Q (2, 2 ; 10)	GR	(2, 1 ; 10)	GR	E	147.709 57	−0.1	7184
* 5561	Q (2, 2 ; 9)	GR	(2, 1 ; 9)	GR	E	147.717 38	0.5	6990
* 5562	R (1, 9 ; 16)	GR	(0, 10 ; 15)	GR	A	147.721 65	3.4	2038
* 5563	Q (2, 2 ; 8)	GR	(2, 1 ; 8)	GR	E	147.724 09	−0.2	6893
* 5564	Q (2, 2 ; 7)	GR	(2, 1 ; 7)	GR	E	147.730 12	1.5	6116
* 5565	Q (2, 2 ; 6)	GR	(2, 1 ; 6)	GR	E	147.735 04	−0.6	6601
* 5566	Q (2, 2 ; 5)	GR	(2, 1 ; 5)	GR	E	147.739 37	1.0	5825
* 5567	Q (2, 2 ; 4)	GR	(2, 1 ; 4)	GR	E	147.742 70	−0.5	5533
* 5568	Q (2, 2 ; 3)	GR	(2, 1 ; 3)	GR	E	147.745 21	0.0	4563
* 5569	P (1, 8 ; 21)	GR	(0, 9 ; 22)	GR	A	147.747 24	0.5	2815
* 5570	Q (2, 2 ; 2)	GR	(2, 1 ; 2)	GR	E	147.747 24	0.0	2815
* 5571	P (2, 3 ; 3)	GR	(1, 2 ; 4)	GR	E	147.768 37	2.2	2038
* 5572	P (1, 1 ; 23)	GR	(0, 2 ; 24)	GR	E	147.785 02	0.8	3106
* 5573	P (2, 8 ; 26)	GR	(1, 7 ; 27)	GR	A	147.802 58	−1.7	3398
* 5574	P (2, 4 ; 22)	GR	(2, 3 ; 23)	GR	E	147.875 92	−0.2	1513
* 5575	P (1, 5 ; 5)	GR	(0, 6 ; 6)	GR	A	148.022 06	0.1	7766
* 5576	P (2, 5 ; 18)	GR	(2, 4 ; 19)	GR	A	148.095 59	−0.2	4368
* 5577	P (3, 0 ; 29)	GR	(2, 1 ; 30)	GR	E	148.126 10	1.6	1456
* 5578	P (3, 4 ; 5)	GR	(2, 5 ; 6)	GR	E	148.238 01	−0.1	5728
* 5579	P (1, 0 ; 27)	GR	(0, 1 ; 28)	GR	E	148.259 97	−1.0	2427
* 5580	P (2, −1 ; 7)	GR	(1, 0 ; 8)	GR	E	148.267 44	−0.3	2233
* 5581	P (2, −3 ; 24)	GR	(2, −2 ; 25)	GR	E	148.270 73	−0.4	2524
* 5582	P (2, 5 ; 16)	GR	(1, 6 ; 17)	GR	E	148.347 13	−0.5	2038
* 5583	P (1, 5 ; 15)	GR	(0, 6 ; 16)	GR	E	148.348 83	−0.2	3398
* 5584	P (2, −2 ; 7)	GR	(1, −1 ; 8)	GR	E	148.372 91	−0.2	5339
* 5585	P (1, 4 ; 5)	GR	(0, 5 ; 6)	GR	E	148.384 84	−0.4	6601
* 5586	R (1, −5 ; 32)	GR	(1, −4 ; 31)	GR	E	148.412 67	1.3	1844
* 5587	R (1, 6 ; 23)	GR	(1, 5 ; 22)	GR	E	148.442 32	1.5	5339
* 5588	R (2, 4 ; 9)	GR	(1, 5 ; 8)	GR	A	148.633 09	−0.6	1553
* 5589	R (2, −4 ; 7)	GR	(1, −5 ; 6)	GR	E	148.670 84	0.1	1165
* 5590	P (1, −4 ; 28)	GR	(0, −5 ; 29)	GR	E	148.735 72	3.9	1165
* 5591	R (1, −8 ; 27)	GR	(1, −7 ; 26)	GR	E	148.744 48	−0.5	3980
* 5592	P (1, −3 ; 8)	GR	(0, −4 ; 9)	GR	E	148.766 25	−0.3	6116
* 5593	P (1, 2 $^{+}$; 14)	GR	(0, 3 $^{-}$; 15)	GR	A	148.875 34	0.8	5436
* 5594	P (1, 2 $^{-}$; 14)	GR	(0, 3 $^{+}$; 15)	GR	A	148.894 78	−1.3	5436
* 5595	R (1, 7 ; 30)	GR	(1, 4 ; 29)	GR	A	148.918 14	−0.4	1650
* 5596	P (2, −6 ; 8)	GR	(2, −5 ; 9)	GR	E	149.000 22	−0.8	921
* 5597	P (3, −3 ; 3)	GR	(2, −4 ; 4)	GR	E	149.047 41	0.3	6796
5598	P (1, 9 ; 9)	GR	(0, 10 ; 10)	GR	E	149.055 72	4.3	9708
* 5599	R (2, −1 ; 21)	GR	(1, −2 ; 20)	GR	E	149.062 59	−0.5	6213
* 5600	R (2, 3 ; 17)	GR	(1, 4 ; 16)	GR	A	149.118 05	−0.4	6796
* 5601	P (3, 1 ; 27)	GR	(2, 0 ; 28)	GR	E	149.135 20	−0.7	1553
* 5602	P (2, 3 ; 18)	GR	(1, 4 ; 19)	GR	E	149.182 94	1.3	970
* 5603	P (1, −6 ; 7)	GR	(0, −7 ; 8)	GR	E	149.226 57	−0.6	6407
* 5604	P (1, 9 ; 21)	GR	(0, 9 ; 22)	GR	A	149.233 00	−1.0	970
* 5605	R (1, 9 ; 17)	GR	(0, 10 ; 16)	GR	A	149.236 89	−2.4	1359
* 5606	R (1, 7 ; 23)	GR	(1, 6 ; 22)	GR	A	149.264 17	−0.2	6699
* 5607	P (2, 8 ; 25)	GR	(1, 7 ; 26)	GR	A	149.412 69	−0.6	2233
* 5608	P (1, 8 ; 20)	GR	(0, 9 ; 21)	GR	A	149.422 63	0.6	3300
* 5609	P (1, 1 ; 22)	GR	(0, 2 ; 23)	GR	E	149.455 15	−0.4	3495
* 5610	P (2, 4 ; 21)	GR	(2, 3 ; 22)	GR	E	149.458 89	−0.1	3106
* 5611	P (2, 5 ; 17)	GR	(2, 4 ; 18)	GR	A	149.672 74	−0.7	4757
* 5612	P (3, 0 ; 28)	GR	(2, 1 ; 29)	GR	E	149.724 18	−0.7	1359
* 5613	R (1, 6 ; 24)	GR	(1, 5 ; 23)	GR	E	149.789 17	0.2	4660
* 5614	P (3, 4 ; 4)	GR	(2, 5 ; 5)	GR	E	149.811 36	−0.2	5825
* 5615	P (2, −1 ; 6)	GR	(1, 0 ; 7)	GR	E	149.847 26	−0.5	2718
* 5616	P (2, −3 ; 23)	GR	(2, −2 ; 24)	GR	E	149.856 08	−0.4	2815
* 5617	P (2, 5 ; 15)	GR	(1, 6 ; 16)	GR	E	149.919 12	0.4	2524
* 5618	P (1, 5 ; 14)	GR	(0, 6 ; 15)	GR	E	149.935 14	−0.7	3883
* 5619	P (2, −2 ; 6)	GR	(1, −1 ; 7)	GR	E	149.956 44	−1.4	5436
* 5620	P (1, 0 ; 26)	GR	(0, 1 ; 27)	GR	E	149.979 05	1.6	7087
* 5621	P (1, 4 ; 4)	GR	(0, 5 ; 5)	GR	E	149.979 05	−0.5	7087
* 5622	R (1, −5 ; 33)	GR	(1, −4 ; 32)	GR	E	149.995 21	0.0	1553
* 5623	P (1, 1 $^{-}$; 29)	GR	(0, 2 $^{+}$; 30)	GR	A	150.125 86	0.3	1941
* 5624	R (2, 4 ; 10)	GR	(1, 5 ; 9)	GR	A	150.189 43	−0.2	1650
* 5625	R (2, −4 ; 8)	GR	(1, −5 ; 7)	GR	E	150.222 91	1.2	1747

Index	upper state		lower state			$\tilde{\nu}$	$\delta\tilde{\nu}\cdot 10^4$	Int.
	T $(n, K; J)^{v}$		$(n, K; J)^{v}$		σ	/cm^{-1}	/cm^{-1}	/a.u.
* 5626	Q (2, 4 ; 35)	GR	(1, 3 $^{-}$; 35)	GR	A	150.239 62	0.0	2233
* 5627	R (1, 7 ; 31)	GR	(1, 4 ; 30)	GR	A	150.242 05	1.3	1941
* 5628	Q (2, 4 ; 35)	GR	(1, 3 $^{+}$; 35)	GR	A	150.260 13	0.0	2427
* 5629	P (1, −4 ; 27)	GR	(0, −5 ; 28)	GR	E	150.353 50	−0.8	1165
* 5630	Q (2, 4 $^{-}$; 34)	GR	(1, 3 $^{-}$; 34)	GR	A	150.361 50	−2.4	4563
5631	Q (2, 4 ; 34)	GR	(1, 3 $^{-}$; 34)	GR	A	150.361 50	−7.3	4563
* 5632	P (1, −3 ; 7)	GR	(0, −4 ; 8)	GR	E	150.372 55	−1.2	6504
5633	Q (2, 4 ; 34)	GR	(1, 3 $^{+}$; 34)	GR	A	150.378 56	0.1	6116
* 5634	Q (2, 4 $^{+}$; 34)	GR	(1, 3 $^{+}$; 34)	GR	A	150.378 56	0.0	6116
* 5635	R (1, −8 ; 28)	GR	(1, −7 ; 27)	GR	E	150.406 86	0.0	3786
5636	Q (2, 4 $^{-}$; 33)	GR	(1, 3 $^{-}$; 33)	GR	A	150.478 97	−1.4	2621
* 5637	Q (2, 4 ; 33)	GR	(1, 3 $^{-}$; 33)	GR	A	150.478 97	−1.5	2621
* 5638	P (1, −8 ; 23)	GR	(0, −9 ; 24)	GR	E	150.483 40	−2.3	1456
* 5639	Q (2, 4 ; 33)	GR	(1, 3 $^{+}$; 33)	GR	A	150.493 29	1.2	2912
5640	Q (2, 4 $^{+}$; 33)	GR	(1, 3 $^{+}$; 33)	GR	A	150.493 29	−0.6	2912
* 5641	P (1, 2 $^{+}$; 13)	GR	(0, 3 $^{-}$; 14)	GR	A	150.515 08	−1.9	9126
* 5642	P (1, 2 $^{-}$; 13)	GR	(0, 3 $^{+}$; 14)	GR	A	150.528 97	−2.1	6893
* 5643	P (2, −6 ; 7)	GR	(2, −5 ; 8)	GR	E	150.570 36	1.2	1456
* 5644	Q (2, 4 $^{-}$; 32)	GR	(1, 3 $^{-}$; 32)	GR	A	150.588 49	−0.8	3786
* 5645	Q (2, 4 ; 32)	GR	(1, 3 $^{-}$; 32)	GR	A	150.588 49	−1.6	3786
* 5646	Q (1, 6 ; 32)	GR	(0, 7 ; 32)	GR	A	150.594 17	0.4	1067
* 5647	R (2, 3 ; 18)	GR	(1, 4 ; 17)	GR	A	150.600 22	1.9	7281
* 5648	Q (2, 4 $^{+}$; 32)	GR	(1, 3 $^{+}$; 32)	GR	A	150.600 22	−1.7	7281
* 5649	Q (2, 4 ; 32)	GR	(1, 3 $^{+}$; 32)	GR	A	150.600 22	−1.9	7281
* 5650	R (2, −1 ; 22)	GR	(1, −2 ; 21)	GR	E	150.633 79	0.0	5242
* 5651	Q (2, 4 $^{-}$; 31)	GR	(1, 3 $^{-}$; 31)	GR	A	150.692 47	−0.2	4077
* 5652	Q (2, 4 ; 31)	GR	(1, 3 $^{-}$; 31)	GR	A	150.692 47	−0.6	4077
* 5653	Q (2, 4 ; 31)	GR	(1, 3 $^{+}$; 31)	GR	A	150.702 47	0.8	3689
* 5654	Q (2, 4 $^{+}$; 31)	GR	(1, 3 $^{+}$; 31)	GR	A	150.702 47	−0.1	3689
* 5655	P (3, 1 ; 26)	GR	(2, 0 ; 27)	GR	E	150.732 36	−0.1	2038
* 5656	R (1, 9 ; 18)	GR	(0, 10 ; 17)	GR	A	150.748 24	0.8	1262
* 5657	P (2, 3 ; 17)	GR	(1, 4 ; 18)	GR	E	150.759 87	−2.3	1844
* 5658	Q (2, 4 $^{-}$; 30)	GR	(1, 3 $^{-}$; 30)	GR	A	150.790 04	−0.7	3689
* 5659	Q (2, 4 ; 30)	GR	(1, 3 $^{-}$; 30)	GR	A	150.790 04	−2.1	3689
* 5660	Q (2, 4 ; 30)	GR	(1, 3 $^{+}$; 30)	GR	A	150.798 54	−0.1	3980
* 5661	Q (2, 4 $^{+}$; 30)	GR	(1, 3 $^{+}$; 30)	GR	A	150.798 54	−0.9	3980
* 5662	P (1, −6 ; 6)	GR	(0, −7 ; 7)	GR	E	150.828 81	−2.1	6310
5663	P (1, 9 ; 20)	GR	(0, 9 ; 21)	GR	A	150.879 90	−5.4	1359
* 5664	Q (2, 4 $^{-}$; 29)	GR	(1, 3 $^{-}$; 29)	GR	A	150.882 16	0.0	4368
* 5665	Q (2, 4 ; 29)	GR	(1, 3 $^{-}$; 29)	GR	A	150.882 16	−1.2	4368
* 5666	Q (2, 4 ; 29)	GR	(1, 3 $^{+}$; 29)	GR	A	150.889 02	−0.1	4174
* 5667	Q (2, 4 $^{+}$; 29)	GR	(1, 3 $^{+}$; 29)	GR	A	150.889 02	−0.6	4174
* 5668	R (1, 7 ; 24)	GR	(1, 6 ; 23)	GR	A	150.953 39	0.9	6601
5669	Q (1, 6 ; 31)	GR	(0, 7 ; 31)	GR	A	150.962 76	−6.1	1844
* 5670	Q (2, 4 $^{-}$; 28)	GR	(1, 3 $^{-}$; 28)	GR	A	150.968 54	1.1	4660
* 5671	Q (2, 4 ; 28)	GR	(1, 3 $^{-}$; 28)	GR	A	150.968 54	−0.5	4660
* 5672	Q (2, 4 ; 28)	GR	(1, 3 $^{+}$; 28)	GR	A	150.974 31	0.9	4563
* 5673	Q (2, 4 $^{+}$; 28)	GR	(1, 3 $^{+}$; 28)	GR	A	150.974 31	0.5	4563
* 5674	P (2, 8 ; 24)	GR	(1, 7 ; 25)	GR	A	151.021 20	−0.2	2621
* 5675	P (2, 4 ; 20)	GR	(2, 3 ; 21)	GR	E	151.041 37	0.0	3495
* 5676	Q (2, 4 ; 27)	GR	(1, 3 $^{-}$; 27)	GR	A	151.049 81	0.2	4951
* 5677	Q (2, 4 $^{-}$; 27)	GR	(1, 3 $^{-}$; 27)	GR	A	151.049 81	−0.9	4951
* 5678	Q (2, 4 $^{+}$; 27)	GR	(1, 3 $^{+}$; 27)	GR	A	151.054 32	0.9	5048
* 5679	Q (2, 4 ; 27)	GR	(1, 3 $^{+}$; 27)	GR	A	151.054 32	0.3	5048
* 5680	P (1, 8 ; 19)	GR	(0, 9 ; 20)	GR	A	151.093 21	−0.6	3883
* 5681	R (1, 6 ; 25)	GR	(1, 5 ; 24)	GR	E	151.112 94	−0.1	4854
* 5682	Q (2, 4 $^{-}$; 26)	GR	(1, 3 $^{-}$; 26)	GR	A	151.125 72	−0.7	5825
* 5683	Q (2, 4 ; 26)	GR	(1, 3 $^{-}$; 26)	GR	A	151.125 72	−1.6	5825
* 5684	Q (2, 4 ; 26)	GR	(1, 3 $^{+}$; 26)	GR	A	151.129 89	2.7	6699
5685	Q (2, 4 $^{+}$; 26)	GR	(1, 3 $^{+}$; 26)	GR	A	151.129 89	2.7	6699
5686	P (1, 1 ; 21)	GR	(0, 2 ; 22)	GR	E	151.129 89	−5.8	6699
* 5687	Q (2, 4 $^{-}$; 25)	GR	(1, 3 $^{-}$; 25)	GR	A	151.197 07	1.3	5825
* 5688	Q (2, 4 ; 25)	GR	(1, 3 $^{-}$; 25)	GR	A	151.197 07	0.1	5825
* 5689	Q (2, 4 $^{+}$; 25)	GR	(1, 3 $^{+}$; 25)	GR	A	151.199 90	0.1	5922
* 5690	Q (2, 4 ; 25)	GR	(1, 3 $^{+}$; 25)	GR	A	151.199 90	−0.4	5922
* 5691	P (2, 5 ; 16)	GR	(2, 4 ; 17)	GR	A	151.249 64	0.1	4757
* 5692	Q (2, 4 $^{-}$; 24)	GR	(1, 3 $^{-}$; 24)	GR	A	151.263 52	0.2	6310
* 5693	Q (2, 4 ; 24)	GR	(1, 3 $^{-}$; 24)	GR	A	151.263 52	−0.2	6310
* 5694	Q (2, 4 $^{+}$; 24)	GR	(1, 3 $^{+}$; 24)	GR	A	151.265 89	−0.6	6213
* 5695	Q (2, 4 ; 24)	GR	(1, 3 $^{+}$; 24)	GR	A	151.265 89	−0.8	6213
* 5696	Q (1, 6 ; 30)	GR	(0, 7 ; 30)	GR	A	151.315 29	−3.8	1650
* 5697	P (3, 0 ; 27)	GR	(2, 1 ; 28)	GR	E	151.321 65	−1.1	1456
* 5698	Q (2, 4 $^{-}$; 23)	GR	(1, 3 $^{-}$; 23)	GR	A	151.325 56	−0.3	6310
* 5699	Q (2, 4 ; 23)	GR	(1, 3 $^{-}$; 23)	GR	A	151.325 56	−1.2	6310
* 5700	Q (2, 4 ; 23)	GR	(1, 3 $^{+}$; 23)	GR	A	151.327 54	0.0	6310



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 5701	Q (2, 4 +; 23) GR	←	(1, 3 +; 23) GR	A	151.327 54	0.0	6310
5702	Q (2, 4 −; 22) GR	←	(1, 3 −; 22) GR	A	151.382 99	−4.0	0
* 5703	Q (2, 4 ; 22) GR	←	(1, 3 −; 22) GR	A	151.383 69	1.6	6601
* 5704	Q (2, 4 +; 22) GR	←	(1, 3 +; 22) GR	A	151.384 48	−2.0	5547
5705	Q (2, 4 ; 22) GR	←	(1, 3 +; 22) GR	A	151.384 48	−5.0	5535
* 5706	P (1, 2 +; 25) GR	←	(0, 1 −; 26) GR	A	151.389 88	−0.9	2038
* 5707	P (2, −1 ; 5) GR	←	(1, 0 ; 6) GR	E	151.426 05	−1.5	2330
* 5708	Q (2, 4 ; 21) GR	←	(1, 3 ; 21) GR	A	151.437 96	1.8	8932
* 5709	P (2, −3 ; 22) GR	←	(2, −2 ; 23) GR	E	151.441 28	0.1	3495
* 5710	Q (2, 4 ; 20) GR	←	(1, 3 ; 20) GR	A	151.487 56	0.5	9320
* 5711	P (2, 5 ; 14) GR	←	(1, 6 ; 15) GR	E	151.494 98	0.5	3009
* 5712	P (1, 5 ; 13) GR	←	(0, 6 ; 14) GR	E	151.525 92	−0.3	4174
* 5713	Q (2, 4 ; 19) GR	←	(1, 3 ; 19) GR	A	151.533 71	−0.8	9417
* 5714	P (2, −2 ; 5) GR	←	(1, −1 ; 6) GR	E	151.538 38	0.2	5048
* 5715	Q (2, 4 ; 18) GR	←	(1, 3 ; 18) GR	A	151.576 41	−0.1	9029
* 5716	Q (2, 4 ; 17) GR	←	(1, 3 ; 17) GR	A	151.615 86	−0.5	8834
5717	Q (1, 6 ; 29) GR	←	(0, 7 ; 29) GR	A	151.650 07	−5.6	6310
* 5718	Q (2, 4 ; 16) GR	←	(1, 3 ; 16) GR	A	151.652 20	0.6	8834
* 5719	Q (2, 4 ; 15) GR	←	(1, 3 ; 15) GR	A	151.685 41	−0.5	8640
* 5720	P (1, 0 ; 25) GR	←	(0, 1 ; 26) GR	E	151.695 37	−0.6	3398
5721	Q (2, 4 ; 14) GR	←	(1, 3 ; 14) GR	A	151.715 35	−6.8	9708
* 5722	Q (2, 4 ; 13) GR	←	(1, 3 ; 13) GR	A	151.744 15	2.4	8834
* 5723	R (2, 4 ; 11) GR	←	(1, 5 ; 10) GR	A	151.744 15	−1.5	8834
* 5724	Q (2, 4 ; 12) GR	←	(1, 3 ; 12) GR	A	151.769 04	−0.8	9417
* 5725	R (2, −4 ; 9) GR	←	(1, −5 ; 8) GR	E	151.771 41	−3.1	7184
* 5726	Q (2, 4 ; 11) GR	←	(1, 3 ; 11) GR	A	151.791 95	−0.4	8640
* 5727	Q (2, 4 ; 10) GR	←	(1, 3 ; 10) GR	A	151.812 56	−0.3	8543
* 5728	Q (2, 4 ; 9) GR	←	(1, 3 ; 9) GR	A	151.830 90	0.1	8834
* 5729	Q (2, 4 ; 8) GR	←	(1, 3 ; 8) GR	A	151.847 15	−0.1	8640
* 5730	Q (2, 4 ; 7) GR	←	(1, 3 ; 7) GR	A	151.861 34	−0.4	7864
* 5731	Q (2, 4 ; 6) GR	←	(1, 3 ; 6) GR	A	151.873 65	−0.3	7961
* 5732	Q (2, 4 ; 5) GR	←	(1, 3 ; 5) GR	A	151.884 08	0.0	7669
* 5733	Q (2, 4 ; 4) GR	←	(1, 3 ; 4) GR	A	151.892 86	2.1	7281
* 5734	P (1, 1 −; 28) GR	←	(0, 2 +; 29) GR	A	151.932 77	1.0	2815
* 5735	Q (1, 6 ; 28) GR	←	(0, 7 ; 28) GR	A	151.967 91	−0.9	1844
5736	P (1, −4 ; 26) GR	←	(0, −5 ; 27) GR	E	151.974 82	10.4	6407
* 5737	P (1, −3 ; 6) GR	←	(0, −4 ; 7) GR	E	151.974 82	−1.2	6407
* 5738	R (2, 3 ; 19) GR	←	(1, 4 ; 18) GR	A	152.070 22	0.7	6019
* 5739	R (1, −8 ; 29) GR	←	(1, −7 ; 28) GR	E	152.079 64	−2.2	3495
5740	P (1, −8 ; 22) GR	←	(0, −9 ; 23) GR	E	152.121 06	−3.6	970
* 5741	P (2, −6 ; 6) GR	←	(2, −5 ; 7) GR	E	152.140 22	1.0	873
* 5742	P (1, 2 +; 12) GR	←	(0, 3 −; 13) GR	A	152.149 09	−0.8	5825
* 5743	P (1, 2 −; 12) GR	←	(0, 3 +; 13) GR	A	152.158 76	−0.3	5825
* 5744	R (2, −1 ; 23) GR	←	(1, −2 ; 22) GR	E	152.208 88	0.3	4854
* 5745	Q (2, 3 ; 37) GR	←	(1, 2 ; 37) GR	E	152.240 53	0.0	1359
5746	R (1, 9 ; 19) GR	←	(0, 10 ; 18) GR	A	152.254 72	3.4	970
* 5747	Q (1, 6 ; 27) GR	←	(0, 7 ; 27) GR	A	152.267 62	−0.3	1844
* 5748	P (3, 1 ; 25) GR	←	(2, 0 ; 26) GR	E	152.328 12	−0.4	2135
* 5749	P (2, 3 ; 16) GR	←	(1, 4 ; 17) GR	E	152.338 73	1.0	1456
* 5750	Q (2, 3 ; 36) GR	←	(1, 2 ; 36) GR	E	152.365 38	−0.3	1650
* 5751	R (1, 6 ; 26) GR	←	(1, 5 ; 25) GR	E	152.413 31	−0.7	3980
* 5752	R (2, 2 ; 3) GR	←	(2, 1 ; 2) GR	E	152.449 09	0.1	1844
* 5753	Q (2, 3 ; 35) GR	←	(1, 2 ; 35) GR	E	152.484 32	−0.3	2135
* 5754	P (1, 9 ; 19) GR	←	(0, 9 ; 20) GR	A	152.522 29	−2.9	970
* 5755	Q (1, 6 ; 26) GR	←	(0, 7 ; 26) GR	A	152.549 55	−0.5	2330
* 5756	Q (2, 3 ; 34) GR	←	(1, 2 ; 34) GR	E	152.597 53	−0.6	2233
* 5757	P (2, 4 ; 19) GR	←	(2, 3 ; 20) GR	E	152.623 64	−1.0	3786
* 5758	P (2, 8 ; 23) GR	←	(1, 7 ; 24) GR	A	152.627 95	−0.7	3009
* 5759	R (1, 7 ; 25) GR	←	(1, 6 ; 24) GR	A	152.656 10	0.3	6699
* 5760	Q (2, 3 ; 33) GR	←	(1, 2 ; 33) GR	E	152.704 70	0.2	2718
* 5761	P (1, 8 ; 18) GR	←	(0, 9 ; 19) GR	A	152.758 56	−1.0	4368
* 5762	Q (2, 3 ; 32) GR	←	(1, 2 ; 32) GR	E	152.806 42	−0.4	3009
* 5763	P (1, 1 ; 20) GR	←	(0, 2 ; 21) GR	E	152.810 20	0.4	4271
* 5764	Q (1, 6 ; 25) GR	←	(0, 7 ; 25) GR	A	152.814 04	1.5	2621
* 5765	P (2, 5 ; 15) GR	←	(2, 4 ; 16) GR	A	152.826 38	−0.6	5631
* 5766	Q (2, 3 ; 31) GR	←	(1, 2 ; 31) GR	E	152.902 73	−0.8	3786
5767	P (3, 0 ; 26) GR	←	(2, 1 ; 27) GR	E	152.919 12	−0.8	2718
* 5768	Q (2, 3 ; 30) GR	←	(1, 2 ; 30) GR	E	152.993 52	−1.5	3883
* 5769	P (2, −1 ; 4) GR	←	(1, 0 ; 5) GR	E	153.003 81	−1.8	1941
* 5770	P (2, −3 ; 21) GR	←	(2, −2 ; 22) GR	E	153.026 03	−0.8	3203
* 5771	Q (1, 6 ; 24) GR	←	(0, 7 ; 24) GR	A	153.060 24	0.2	3203
* 5772	P (2, 5 ; 13) GR	←	(1, 6 ; 14) GR	E	153.073 96	−0.7	3592
* 5773	Q (2, 3 ; 29) GR	←	(1, 2 ; 29) GR	E	153.079 31	−0.3	4660
* 5774	P (2, −2 ; 4) GR	←	(1, −1 ; 5) GR	E	153.118 23	−0.3	4271
* 5775	P (1, 5 ; 12) GR	←	(0, 6 ; 13) GR	E	153.120 21	0.2	3786

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 5776	Q (2, 3 ; 28) GR	←	(1, 2 ; 28) GR	E	153.160 19	1.4	4368
* 5777	Q (2, 3 ; 27) GR	←	(1, 2 ; 27) GR	E	153.236 06	0.6	5339
* 5778	Q (1, 6 ; 23) GR	←	(0, 7 ; 23) GR	A	153.289 38	−0.2	3203
* 5779	R (2, 4 ; 12) GR	←	(1, 5 ; 11) GR	A	153.297 82	−1.0	1747
* 5780	P (1, 2 +; 24) GR	←	(0, 1 −; 25) GR	A	153.305 19	0.2	2718
* 5781	Q (2, 3 ; 26) GR	←	(1, 2 ; 26) GR	E	153.307 69	−1.0	6019
* 5782	R (2, −4 ; 10) GR	←	(1, −5 ; 9) GR	E	153.317 30	−0.6	2330
* 5783	P (2, 6 ; 20) GR	←	(1, 5 ; 21) GR	E	153.319 43	0.6	1456
* 5784	P (1, 1 ; 26) GR	←	(0, 0 ; 27) GR	E	153.369 77	0.3	1456
* 5785	Q (2, 3 ; 25) GR	←	(1, 2 ; 25) GR	E	153.374 76	0.3	5825
* 5786	P (1, 0 ; 24) GR	←	(0, 1 ; 25) GR	E	153.408 64	−0.5	3495
* 5787	Q (2, 3 ; 24) GR	←	(1, 2 ; 24) GR	E	153.437 61	0.1	6893
* 5788	Q (2, 3 ; 23) GR	←	(1, 2 ; 23) GR	E	153.496 36	−0.3	6893
5789	Q (1, 6 ; 22) GR	←	(0, 7 ; 22) GR	A	153.500 84	−3.3	7281
* 5790	R (2, 3 ; 20) GR	←	(1, 4 ; 19) GR	A	153.527 78	0.1	6310
* 5791	Q (2, 3 ; 22) GR	←	(1, 2 ; 22) GR	E	153.551 36	1.0	6601
* 5792	P (1, −3 ; 5) GR	←	(0, −4 ; 6) GR	E	153.573 30	0.2	6601
* 5793	P (1, −4 ; 25) GR	←	(0, −5 ; 26) GR	E	153.595 53	0.3	2135
* 5794	Q (2, 3 ; 21) GR	←	(1, 2 ; 21) GR	E	153.602 52	−0.1	6699
* 5795	Q (2, 3 ; 20) GR	←	(1, 2 ; 20) GR	E	153.650 19	0.0	6893
* 5796	R (1, 6 ; 27) GR	←	(1, 5 ; 26) GR	E	153.690 15	−0.3	4077
* 5797	Q (2, 3 ; 19) GR	←	(1, 2 ; 19) GR	E	153.694 39	−1.1	7184
* 5798	Q (1, 6 ; 21) GR	←	(0, 7 ; 21) GR	A	153.696 33	0.4	3398
* 5799	P (1, 1 −; 27) GR	←	(0, 2 +; 28) GR	A	153.725 15	0.0	2718
* 5800	Q (2, 3 ; 18) GR	←	(1, 2 ; 18) GR	E	153.735 50	0.1	7475
* 5801	R (1, 9 ; 20) GR	←	(0, 10 ; 19) GR	A	153.755 36	0.0	2038
* 5802	P (1, −8 ; 21) GR	←	(0, −9 ; 22) GR	E	153.757 73	−0.6	1456
* 5803	R (1, −8 ; 30) GR	←	(1, −7 ; 29) GR	E	153.764 11	0.7	3203
* 5804	Q (2, 3 ; 17) GR	←	(1, 2 ; 17) GR	E	153.773 43	0.5	7572
* 5805	P (1, 2 +; 11) GR	←	(0, 3 −; 12) GR	A	153.777 25	0.5	6213
* 5806	P (1, 2 −; 11) GR	←	(0, 3 +; 12) GR	A	153.783 65	−1.1	6699
* 5807	R (2, −1 ; 24) GR	←	(1, −2 ; 23) GR	E	153.788 51	0.8	5048
* 5808	Q (2, 3 ; 16) GR	←	(1, 2 ; 16) GR	E	153.808 55	0.6	7669
* 5809	Q (2, 3 ; 15) GR	←	(1, 2 ; 15) GR	E	153.840 79	−0.8	7766
* 5810	Q (2, 3 ; 14) GR	←	(1, 2 ; 14) GR	E	153.870 55	0.8	8640
* 5811	Q (1, 6 ; 20) GR	←	(0, 7 ; 20) GR	A	153.874 80	−0.6	4368
* 5812	Q (2, 3 ; 13) GR	←	(1, 2 ; 13) GR	E	153.897 47	−0.5	8252
5813	P (2, 3 ; 15) GR	←	(1, 4 ; 16) GR	E	153.917 36	−5.3	1941
* 5814	Q (2, 3 ; 12) GR	←	(1, 2 ; 12) GR	E	153.922 16	2.0	7864
5815	P (3, 1 ; 24) GR	←	(2, 0 ; 25) GR	E	153.922 16	−8.9	7864
* 5816	Q (2, 3 ; 11) GR	←	(1, 2 ; 11) GR	E	153.944 30	−0.7	8252
* 5817	Q (2, 3 ; 10) GR	←	(1, 2 ; 10) GR	E	153.964 43	−0.1	8252
* 5818	Q (2, 3 ; 9) GR	←	(1, 2 ; 9) GR	E	153.982 41	0.4	7669
* 5819	Q (2, 3 ; 8) GR	←	(1, 2 ; 8) GR	E	153.998 33	−0.4	7572
* 5820	Q (2, 3 ; 7) GR	←	(1, 2 ; 7) GR	E	154.012 28	−0.3	7766
* 5821	R (2, 2 ; 4) GR	←	(2, 1 ; 3) GR	E	154.014 45	0.5	2815
* 5822	Q (2, 3 ; 6) GR	←	(1, 2 ; 6) GR	E	154.024 38	−0.7	7572
* 5823	Q (2, 3 ; 5) GR	←	(1, 2 ; 5) GR	E	154.034 62	0.3	7087
* 5824	Q (1, 6 ; 19) GR	←	(0, 7 ; 19) GR	A	154.037 44	−1.6	4368
* 5825	Q (2, 3 ; 4) GR	←	(1, 2 ; 4) GR	E	154.043 08	−0.2	6116
* 5826	Q (2, 3 ; 3) GR	←	(1, 2 ; 3) GR	E	154.049 65	−1.6	4854
* 5827	P (1, 9 ; 18) GR	←	(0, 9 ; 19) GR	A	154.159 29	−0.1	1067
* 5828	Q (1, 6 ; 18) GR	←	(0, 7 ; 18) GR	A	154.185 23	−0.6	4660
* 5829	P (2, 4 ; 18) GR	←	(2, 3 ; 19) GR	E	154.205 46	0.2	3883
* 5830	P (2, 8 ; 22) GR	←	(1, 7 ; 23) GR	A	154.233 24	−0.1	3203
* 5831	Q (1, 6 ; 17) GR	←	(0, 7 ; 17) GR	A	154.318 36	−0.6	4757
* 5832	P (1, 1 +; 27) GR	←	(0, 2 −; 28) GR	A	154.318 36	−2.4	4757
* 5833	R (1, 7 ; 26) GR	←	(1, 6 ; 25) GR	A	154.372 93	0.1	6019
* 5834	P (2, 5 ; 14) GR	←	(2, 4 ; 15) GR	A	154.402 75	−1.4	4854
* 5835	P (1, 8 ; 17) GR	←	(0, 9 ; 18) GR	A	154.414 40	−1.0	3398
* 5836	Q (1, 6 ; 16) GR	←	(0, 7 ; 16) GR	A	154.437 79	−1.6	4854
* 5837	P (1, 1 ; 19) GR	←	(0, 2 ; 20) GR	E	154.493 23	−0.2	4854
* 5838	P (3, 0 ; 25) GR	←	(2, 1 ; 26) GR	E	154.514 91	−0.3	2038
* 5839	Q (1, 6 ; 15) GR	←	(0, 7 ; 15) GR	A	154.544 44	−0.2	4951
* 5840	P (2, −1 ; 3) GR	←	(1, 0 ; 4) GR	E	154.580 47	−0.2	1941
* 5841	P (2, −3 ; 20) GR	←	(2, −2 ; 21) GR	E	154.610 44	−0.3	3592
* 5842	Q (1, 6 ; 14) GR	←	(0, 7 ; 14) GR	A	154.639 17	0.1	5436
* 5843	P (1, 1 ; 25) GR	←	(0, 0 ; 26) GR	E	154.648 97	1.4	1359
* 5844	P (2, 5 ; 12) GR	←	(1, 6 ; 13) GR	E	154.656 08	0.1	3203
* 5845	Q (3, −3 ; 32) GR	←	(2, −4 ; 32) GR	E	154.682 64	0.0	2038
* 5846	P (2, −2 ; 3) GR	←	(1, −1 ; 4) GR	E	154.696 47	1.0	3203
* 5847	P (1, 5 ; 11) GR	←	(0, 6 ; 12) GR	E	154.716 73	−1.3	4271
* 5848	Q (1, 6 ; 13) GR	←	(0, 7 ; 13) GR	A	154.722 71	0.3	5048
5849	Q (3, −3 ; 31) GR	←	(2, −4 ; 31) GR	E	154.724 59	6.3	1424
* 5850	Q (3, −3 ; 30) GR	←	(2, −4 ; 30) GR	E	154.763 51	−0.1	2233



Index	upper state T (n, K ; J) v		lower state (n, K ; J) v		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 5851	Q (1, 6 ; 12) GR	← (0, 7 ; 12) GR	A	154.796 03	−0.2	5145
* 5852	Q (3, −3 ; 29) GR	← (2, −4 ; 29) GR	E	154.801 73	1.0	3300
* 5853	Q (3, −3 ; 28) GR	← (2, −4 ; 28) GR	E	154.838 16	0.4	3009
* 5854	R (2, 4 ; 13) GR	← (1, 5 ; 12) GR	A	154.850 39	−0.7	1941
5855	R (2, −4 ; 11) GR	← (1, −5 ; 10) GR	E	154.859 84	4.2	6019
* 5856	Q (1, 6 ; 11) GR	← (0, 7 ; 11) GR	A	154.859 84	−2.5	6019
* 5857	Q (3, −3 ; 27) GR	← (2, −4 ; 27) GR	E	154.873 13	0.7	3009
* 5858	Q (3, −3 ; 26) GR	← (2, −4 ; 26) GR	E	154.906 81	−0.1	4077
* 5859	Q (1, 6 ; 10) GR	← (0, 7 ; 10) GR	A	154.915 51	−0.7	4854
* 5860	Q (3, −3 ; 25) GR	← (2, −4 ; 25) GR	E	154.938 95	−0.2	3883
* 5861	R (1, 6 ; 28) GR	← (1, 5 ; 27) GR	E	154.943 31	0.6	3495
* 5862	Q (1, 6 ; 9) GR	← (0, 7 ; 9) GR	A	154.963 43	−0.1	4660
* 5863	Q (3, −3 ; 24) GR	← (2, −4 ; 24) GR	E	154.969 74	−0.7	4757
* 5864	R (2, 3 ; 21) GR	← (1, 4 ; 20) GR	A	154.972 16	−0.6	6310
* 5865	Q (3, −3 ; 23) GR	← (2, −4 ; 23) GR	E	154.999 09	0.2	4174
* 5866	Q (1, 6 ; 8) GR	← (0, 7 ; 8) GR	A	155.004 19	−0.3	3495
* 5867	P (2, 6 ; 19) GR	← (1, 5 ; 20) GR	E	155.017 03	1.9	1650
* 5868	Q (3, −3 ; 22) GR	← (2, −4 ; 22) GR	E	155.027 16	−0.9	4660
* 5869	Q (1, 6 ; 7) GR	← (0, 7 ; 7) GR	A	155.038 92	1.1	2815
* 5870	Q (3, −3 ; 21) GR	← (2, −4 ; 21) GR	E	155.053 84	−0.1	4757
* 5871	Q (3, −3 ; 20) GR	← (2, −4 ; 20) GR	E	155.079 23	1.0	5145
* 5872	Q (3, −3 ; 19) GR	← (2, −4 ; 19) GR	E	155.103 29	−1.1	5533
* 5873	P (1, 0 ; 23) GR	← (0, 1 ; 24) GR	E	155.117 44	−0.8	3786
* 5874	Q (3, −3 ; 18) GR	← (2, −4 ; 18) GR	E	155.126 04	0.2	5825
* 5875	Q (3, −3 ; 17) GR	← (2, −4 ; 17) GR	E	155.147 48	−0.4	5922
* 5876	P (1, −3 ; 4) GR	← (0, −4 ; 5) GR	E	155.167 70	0.0	7669
* 5877	Q (3, −3 ; 16) GR	← (2, −4 ; 16) GR	E	155.167 70	−1.1	7669
* 5878	Q (3, −3 ; 15) GR	← (2, −4 ; 15) GR	E	155.186 70	1.0	6019
* 5879	Q (3, −3 ; 14) GR	← (2, −4 ; 14) GR	E	155.204 41	−0.2	6213
* 5880	P (1, 2 +; 23) GR	← (0, 1 −; 24) GR	A	155.216 06	−1.2	3883
* 5881	P (1, −4 ; 24) GR	← (0, −5 ; 25) GR	E	155.218 55	−1.0	2912
* 5882	Q (3, −3 ; 13) GR	← (2, −4 ; 13) GR	E	155.220 92	−0.1	6310
* 5883	Q (3, −3 ; 12) GR	← (2, −4 ; 12) GR	E	155.236 22	−0.7	6213
* 5884	Q (3, −3 ; 11) GR	← (2, −4 ; 11) GR	E	155.250 33	1.1	6310
5885	R (1, 9 ; 21) GR	← (0, 10 ; 20) GR	A	155.250 33	−7.2	6310
* 5886	Q (3, −3 ; 10) GR	← (2, −4 ; 10) GR	E	155.263 17	−0.1	5922
* 5887	Q (3, −3 ; 9) GR	← (2, −4 ; 9) GR	E	155.274 80	0.1	6019
* 5888	Q (3, −3 ; 8) GR	← (2, −4 ; 8) GR	E	155.285 24	0.0	6019
* 5889	Q (3, −3 ; 7) GR	← (2, −4 ; 7) GR	E	155.294 58	−1.2	5825
* 5890	Q (3, −3 ; 6) GR	← (2, −4 ; 6) GR	E	155.302 75	1.3	5436
* 5891	Q (3, −3 ; 5) GR	← (2, −4 ; 5) GR	E	155.309 68	−0.8	4563
* 5892	Q (3, −3 ; 4) GR	← (2, −4 ; 4) GR	E	155.315 24	−2.1	3592
* 5893	R (2, −1 ; 25) GR	← (1, −2 ; 24) GR	E	155.373 34	1.2	4660
* 5894	P (1, −8 ; 20) GR	← (0, −9 ; 21) GR	E	155.392 28	−0.2	1844
* 5895	P (1, 2 +; 10) GR	← (0, 3 −; 11) GR	A	155.399 81	−1.4	6019
* 5896	P (1, 2 −; 10) GR	← (0, 3 +; 11) GR	A	155.404 12	0.1	6504
* 5897	R (1, −8 ; 31) GR	← (1, −7 ; 30) GR	E	155.459 92	−1.5	2815
* 5898	P (2, 3 ; 14) GR	← (1, 4 ; 15) GR	E	155.497 47	−0.8	1747
* 5899	P (1, 1 −; 26) GR	← (0, 2 +; 27) GR	A	155.503 53	−0.1	3009
* 5900	P (3, 1 ; 23) GR	← (2, 0 ; 24) GR	E	155.517 42	0.6	2815
* 5901	Q (1, 5 ; 30) GR	← (0, 6 ; 30) GR	A	155.538 90	1.2	3203
* 5902	R (2, 2 ; 5) GR	← (2, 1 ; 4) GR	E	155.578 56	−0.9	3883
* 5903	Q (2, −5 ; 38) GR	← (1, −4 ; 38) GR	E	155.668 75	−0.4	1165
* 5904	Q (1, 5 ; 29) GR	← (0, 6 ; 29) GR	A	155.671 04	0.0	3689
* 5905	Q (1, 4 ; 31) GR	← (0, 5 ; 31) GR	E	155.686 88	−0.3	1650
5906	P (1, 9 ; 17) GR	← (0, 9 ; 18) GR	A	155.786 95	4.0	4077
* 5907	P (2, 4 ; 17) GR	← (2, 3 ; 18) GR	E	155.786 95	−0.5	4077
* 5908	Q (1, 5 ; 28) GR	← (0, 6 ; 28) GR	A	155.798 22	−1.4	3980
* 5909	Q (1, 4 ; 30) GR	← (0, 5 ; 30) GR	E	155.833 83	0.0	2038
* 5910	P (2, 8 ; 21) GR	← (1, 7 ; 22) GR	A	155.836 99	0.5	2718
* 5911	Q (2, −5 ; 37) GR	← (1, −4 ; 37) GR	E	155.880 27	−1.0	1067
* 5912	Q (1, 5 ; 27) GR	← (0, 6 ; 27) GR	A	155.920 66	−0.1	4563
* 5913	P (1, 1 ; 24) GR	← (0, 0 ; 25) GR	E	155.946 87	−1.2	1650
* 5914	P (1, 1 +; 26) GR	← (0, 2 −; 27) GR	A	155.968 70	−0.1	2524
* 5915	Q (1, 4 ; 29) GR	← (0, 5 ; 29) GR	E	155.974 81	0.0	2912
* 5916	P (2, 5 ; 13) GR	← (2, 4 ; 14) GR	A	155.978 96	−0.7	5728
* 5917	Q (1, 5 ; 26) GR	← (0, 6 ; 26) GR	A	156.038 22	−0.5	4854
* 5918	Q (2, −5 ; 36) GR	← (1, −4 ; 36) GR	E	156.081 29	−0.8	1359
* 5919	P (1, 8 ; 16) GR	← (0, 9 ; 17) GR	A	156.083 42	−0.2	4466
* 5920	R (1, 7 ; 27) GR	← (1, 6 ; 26) GR	A	156.103 98	−0.7	5825
* 5921	Q (1, 4 ; 28) GR	← (0, 5 ; 28) GR	E	156.110 13	0.2	3980
* 5922	P (3, 0 ; 24) GR	← (2, 1 ; 25) GR	E	156.110 13	−1.5	3980
* 5923	Q (1, 5 ; 25) GR	← (0, 6 ; 25) GR	A	156.150 96	−0.2	5145
* 5924	P (2, −1 ; 2) GR	← (1, 0 ; 3) GR	E	156.155 46	−1.0	1844
* 5925	R (1, 6 ; 29) GR	← (1, 5 ; 28) GR	E	156.172 63	−1.2	3980

Index	upper state T (n, K ; J) v		lower state (n, K ; J) v		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 5926	P (1, 1 ; 18) GR	← (0, 2 ; 19) GR	E	156.178 29	0.4	4563
* 5927	P (2, −3 ; 19) GR	← (2, −2 ; 20) GR	E	156.194 66	0.3	3689
* 5928	Q (1, 4 ; 27) GR	← (0, 5 ; 27) GR	E	156.239 83	0.1	5048
* 5929	P (2, 5 ; 11) GR	← (1, 6 ; 12) GR	E	156.239 83	−1.9	5048
* 5930	Q (1, 5 ; 24) GR	← (0, 6 ; 24) GR	A	156.258 95	−0.7	5533
* 5931	P (2, −2 ; 2) GR	← (1, −1 ; 3) GR	E	156.272 83	1.5	2912
* 5932	Q (2, −5 ; 35) GR	← (1, −4 ; 35) GR	E	156.272 83	0.0	2912
* 5933	P (1, 5 ; 10) GR	← (0, 6 ; 11) GR	E	156.315 08	0.7	4757
* 5934	Q (1, 5 ; 23) GR	← (0, 6 ; 23) GR	A	156.362 18	−1.3	5436
* 5935	Q (1, 4 ; 26) GR	← (0, 5 ; 26) GR	E	156.363 66	−1.1	3416
* 5936	R (2, −4 ; 12) GR	← (1, −5 ; 11) GR	E	156.397 40	−0.1	3106
5937	R (2, 4 ; 14) GR	← (1, 5 ; 13) GR	A	156.402 54	9.2	5922
* 5938	R (2, 3 ; 22) GR	← (1, 4 ; 21) GR	A	156.402 54	−1.9	5922
* 5939	Q (2, −5 ; 34) GR	← (1, −4 ; 34) GR	E	156.453 26	−0.9	2524
* 5940	Q (1, 5 ; 22) GR	← (0, 6 ; 22) GR	A	156.460 86	−1.1	0
* 5941	Q (1, 4 ; 25) GR	← (0, 5 ; 25) GR	E	156.482 54	−0.3	4271
* 5942	P (1, −2 ; 31) GR	← (0, −3 ; 32) GR	E	156.516 77	−1.3	1165
* 5943	Q (1, 5 ; 21) GR	← (0, 6 ; 21) GR	A	156.554 90	−0.1	6019
* 5944	Q (1, 4 ; 24) GR	← (0, 5 ; 24) GR	E	156.595 85	0.5	4174
5945	Q (2, −5 ; 33) GR	← (1, −4 ; 33) GR	E	156.624 04	−7.8	6893
* 5946	Q (1, 5 ; 20) GR	← (0, 6 ; 20) GR	A	156.644 14	−0.2	6116
* 5947	P (2, 6 ; 18) GR	← (1, 5 ; 19) GR	E	156.701 73	−1.6	1747
* 5948	Q (1, 4 ; 23) GR	← (0, 5 ; 23) GR	E	156.703 97	0.3	4854
* 5949	Q (1, 5 ; 19) GR	← (0, 6 ; 19) GR	A	156.728 22	−0.3	6310
* 5950	R (1, 9 ; 22) GR	← (0, 10 ; 21) GR	A	156.742 07	3.0	1650
* 5951	P (1, −3 ; 3) GR	← (0, −4 ; 4) GR	E	156.758 15	−0.5	6601
* 5952	Q (2, −5 ; 32) GR	← (1, −4 ; 32) GR	E	156.786 14	−2.9	2427
* 5953	Q (1, 5 ; 18) GR	← (0, 6 ; 18) GR	A	156.802 84	−0.9	6310
* 5954	Q (1, 4 ; 22) GR	← (0, 5 ; 22) GR	E	156.806 82	0.6	5533
* 5955	P (1, 0 ; 22) GR	← (0, 1 ; 23) GR	E	156.821 61	−0.8	4660
* 5956	P (1, −4 ; 23) GR	← (0, −5 ; 24) GR	E	156.842 77	0.4	1650
* 5957	Q (1, 5 ; 17) GR	← (0, 6 ; 17) GR	A	156.890 72	−1.0	6990
* 5958	Q (1, 4 ; 21) GR	← (0, 5 ; 21) GR	E	156.904 60	1.1	5339
* 5959	Q (2, −5 ; 31) GR	← (1, −4 ; 31) GR	E	156.938 36	−0.6	2718
* 5960	Q (1, 5 ; 16) GR	← (0, 6 ; 16) GR	A	156.960 81	0.0	6796
* 5961	R (2, −1 ; 26) GR	← (1, −2 ; 25) GR	E	156.963 61	−0.1	4854
* 5962	Q (1, 4 ; 20) GR	← (0, 5 ; 20) GR	E	156.997 15	−0.8	5533
* 5963	P (1, 2 +; 9) GR	← (0, 3 −; 10) GR	A	157.017 38	−0.5	6699
5964	P (1, 2 +; 9) GR	← (0, 3 ; 10) GR	A	157.017 38	−6.2	6699
* 5965	P (1, 2 −; 9) GR	← (0, 3 ; 10) GR	A	157.020 00	2.0	6310
* 5966	P (1, 2 −; 9) GR	← (0, 3 +; 10) GR	A	157.020 00	−0.3	6310
* 5967	P (1, −8 ; 19) GR	← (0, −9 ; 20) GR	E	157.024 87	−0.8	2233
* 5968	Q (1, 5 ; 15) GR	← (0, 6 ; 15) GR	A	157.027 59	−0.3	7475
* 5969	P (2, 3 ; 13) GR	← (1, 4 ; 14) GR	E	157.077 87	1.5	1844
* 5970	Q (2, −5 ; 30) GR	← (1, −4 ; 30) GR	E	157.080 93	−3.0	3009
* 5971	Q (1, 4 ; 19) GR	← (0, 5 ; 19) GR	E	157.084 97	−0.1	5242
* 5972	Q (1, 5 ; 14) GR	← (0, 6 ; 14) GR	A	157.090 30	−1.4	7281
* 5973	P (3, 1 ; 22) GR	← (2, 0 ; 23) GR	E	157.110 46	−1.0	3495
* 5974	P (1, 2 +; 22) GR	← (0, 1 −; 23) GR	A	157.121 96	−1.1	2621
* 5975	Q (3, 4 ; 30) GR	← (2, 5 ; 30) GR	E	157.129 23	−1.1	1844
* 5976	R (2, 2 ; 6) GR	← (2, 1 ; 5) GR	E	157.141 91	0.6	4466
* 5977	Q (1, 5 ; 13) GR	← (0, 6 ; 13) GR	A	157.148 97	−0.7	6796
* 5978	Q (3, 4 ; 29) GR	← (2, 5 ; 29) GR	E	157.161 54	1.5	1941
* 5979	Q (1, 4 ; 18) GR	← (0, 5 ; 18) GR	E	157.167 82	−0.6	6601
* 5980	R (1, −8 ; 32) GR	← (1, −7 ; 31) GR	E	157.167 82	−1.3	6601
* 5981	Q (3, 4 ; 28) GR	← (2, 5 ; 28) GR	E	157.193 12	0.2	2135
* 5982	Q (1, 5 ; 12) GR	← (0, 6 ; 12) GR	A	157.203 33	−0.1	7378
* 5983	Q (2, −5 ; 29) GR	← (1, −4 ; 29) GR	E	157.215 07	−0.4	3203
* 5984	Q (3, 4 ; 27) GR	← (2, 5 ; 27) GR	E	157.223 68	0.4	3106
* 5985	Q (1, 4 ; 17) GR	← (0, 5 ; 17) GR	E	157.245 84	−0.8	6116
* 5986	Q (1, 5 ; 11) GR	← (0, 6 ; 11) GR	A	157.253 46	−0.4	6893
* 5987	Q (3, 4 ; 26) GR	← (2, 5 ; 26) GR	E	157.253 46	−0.7	6893
* 5988	P (1, 1 ; 23) GR	← (0, 0 ; 24) GR	E	157.264 69	1.0	1650
* 5989	P (1, 1 −; 25) GR	← (0, 2 +; 26) GR	A	157.268 03	−0.6	3495
* 5990	Q (3, 4 ; 25) GR	← (2, 5 ; 25) GR	E	157.282 35	−0.5	3203
* 5991	Q (1, 5 ; 10) GR	← (0, 6 ; 10) GR	A	157.299 27	−1.1	6893
* 5992	Q (3, 4 ; 24) GR	← (2, 5 ; 24) GR	E	157.310 31	0.9	3398
* 5993	Q (1, 4 ; 16) GR	← (0, 5 ; 16) GR	E	157.319 18	−0.1	6213
* 5994	Q (3, 4 ; 23) GR	← (2, 5 ; 23) GR	E	157.337 37	0.5	4174
* 5995	Q (2, −5 ; 28) GR	← (1, −4 ; 28) GR	E	157.340 85	2.8	7864
* 5996	Q (1, 5 ; 9) GR	← (0, 6 ; 9) GR	A	157.340 85	−1.7	7864
* 5997	Q (3, 4 ; 22) GR	← (2, 5 ; 22) GR	E	157.363 29	−1.2	4077
* 5998	P (2, 4 ; 16) GR	← (2, 3 ; 17) GR	E	157.368 15	−1.0	4563
* 5999	Q (1, 5 ; 8) GR	← (0, 6 ; 8) GR	A	157.378 50	0.5	6796
* 6000	R (1, 6 ; 30) GR	← (1, 5 ; 29) GR	E	157.378 50	−3.2	6796



Index	upper state			lower state			σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
	T	$(n, K; J)$	v	$(n, K; J)$	v					
* 6001	Q	(1, 4 ; 15)	GR	(0, 5 ; 15)	GR	E	157.388 06	1.4	7766
6002	Q	(3, 4 ; 21)	GR	(2, 5 ; 21)	GR	E	157.388 06	−4.3	7766
* 6003	Q	(1, 5 ; 7)	GR	(0, 6 ; 7)	GR	A	157.411 94	1.5	7281
6004	Q	(3, 4 ; 20)	GR	(2, 5 ; 20)	GR	E	157.411 94	−5.8	7281
* 6005	P	(1, 9 ; 16)	GR	(0, 9 ; 17)	GR	A	157.426 91	−1.7	1456
* 6006	Q	(3, 4 ; 19)	GR	(2, 5 ; 19)	GR	E	157.435 70	0.2	4466
* 6007	P	(2, 8 ; 20)	GR	(1, 7 ; 21)	GR	A	157.438 89	−1.1	3300
* 6008	Q	(1, 5 ; 6)	GR	(0, 6 ; 6)	GR	A	157.440 88	0.4	5048
* 6009	Q	(1, 4 ; 14)	GR	(0, 5 ; 14)	GR	E	157.451 79	−1.1	5922
* 6010	Q	(2, −5 ; 27)	GR	(1, −4 ; 27)	GR	E	157.457 68	1.7	6407
* 6011	Q	(3, 4 ; 18)	GR	(2, 5 ; 18)	GR	E	157.457 68	−0.5	6407
* 6012	Q	(3, 4 ; 17)	GR	(2, 5 ; 17)	GR	E	157.478 56	−0.8	5339
* 6013	Q	(3, 4 ; 16)	GR	(2, 5 ; 16)	GR	E	157.498 72	−0.3	5339
* 6014	Q	(1, 4 ; 13)	GR	(0, 5 ; 13)	GR	E	157.511 31	−0.3	6504
* 6015	Q	(3, 4 ; 15)	GR	(2, 5 ; 15)	GR	E	157.517 60	−0.4	5436
* 6016	Q	(3, 4 ; 14)	GR	(2, 5 ; 14)	GR	E	157.535 42	0.7	5533
* 6017	Q	(3, 4 ; 13)	GR	(2, 5 ; 13)	GR	E	157.552 10	0.7	5825
* 6018	P	(2, 5 ; 12)	GR	(2, 4 ; 13)	GR	A	157.554 65	0.0	5339
* 6019	Q	(1, 4 ; 12)	GR	(0, 5 ; 12)	GR	E	157.566 63	2.1	7766
* 6020	Q	(2, −5 ; 26)	GR	(1, −4 ; 26)	GR	E	157.566 63	1.2	7766
* 6021	Q	(3, 4 ; 12)	GR	(2, 5 ; 12)	GR	E	157.567 49	0.8	4936
* 6022	Q	(3, 4 ; 11)	GR	(2, 5 ; 11)	GR	E	157.582 13	1.3	7087
* 6023	Q	(3, 4 ; 10)	GR	(2, 5 ; 10)	GR	E	157.595 18	−0.8	5339
* 6024	Q	(3, 4 ; 9)	GR	(2, 5 ; 9)	GR	E	157.607 25	−1.0	5145
* 6025	P	(1, 1 $^-$; 25)	GR	(0, 2 $^-$; 26)	GR	A	157.611 49	0.8	3203
* 6026	Q	(1, 4 ; 11)	GR	(0, 5 ; 11)	GR	E	157.617 07	1.8	5922
* 6027	Q	(3, 4 ; 8)	GR	(2, 5 ; 8)	GR	E	157.618 07	−0.7	4256
* 6028	Q	(3, 4 ; 7)	GR	(2, 5 ; 7)	GR	E	157.627 92	0.5	4563
* 6029	Q	(3, 4 ; 6)	GR	(2, 5 ; 6)	GR	E	157.636 42	1.1	3592
* 6030	Q	(3, 4 ; 5)	GR	(2, 5 ; 5)	GR	E	157.643 73	0.4	2912
* 6031	Q	(1, 4 ; 10)	GR	(0, 5 ; 10)	GR	E	157.662 98	0.0	6504
* 6032	Q	(2, −5 ; 25)	GR	(1, −4 ; 25)	GR	E	157.667 80	−0.9	4951
* 6033	P	(3, 0 ; 23)	GR	(2, 1 ; 24)	GR	E	157.704 72	0.4	6699
* 6034	Q	(1, 4 ; 9)	GR	(0, 5 ; 9)	GR	E	157.704 72	−1.0	6699
6035	P	(2, −1 ; 1)	GR	(1, 0 ; 2)	GR	E	157.729 75	4.7	1262
* 6036	P	(1, 8 ; 15)	GR	(0, 9 ; 16)	GR	A	157.734 22	−0.9	4854
* 6037	Q	(1, 4 ; 8)	GR	(0, 5 ; 8)	GR	E	157.742 26	−0.4	5922
* 6038	Q	(2, −5 ; 24)	GR	(1, −4 ; 24)	GR	E	157.761 97	0.3	5145
* 6039	Q	(1, 4 ; 7)	GR	(0, 5 ; 7)	GR	E	157.775 52	−0.5	5728
* 6040	P	(2, −3 ; 18)	GR	(2, −2 ; 19)	GR	E	157.778 35	−0.9	4563
* 6041	Q	(1, 4 ; 6)	GR	(0, 5 ; 6)	GR	E	157.804 49	−1.2	4660
* 6042	R	(2, 3 ; 23)	GR	(1, 4 ; 22)	GR	A	157.818 88	0.5	5533
* 6043	P	(2, 5 ; 10)	GR	(1, 6 ; 11)	GR	E	157.825 53	−0.4	3398
* 6044	Q	(1, 4 ; 5)	GR	(0, 5 ; 5)	GR	E	157.829 34	−0.3	3106
* 6045	P	(1, −3 ; 27)	GR	(0, −2 ; 28)	GR	E	157.835 15	−0.2	1359
* 6046	Q	(2, −5 ; 23)	GR	(1, −4 ; 23)	GR	E	157.849 22	2.5	7961
6047	R	(1, 7 ; 28)	GR	(1, 6 ; 27)	GR	A	157.849 22	−4.3	7961
* 6048	P	(1, 1 ; 17)	GR	(0, 2 ; 18)	GR	E	157.863 50	−0.6	5048
* 6049	P	(1, 5 ; 9)	GR	(0, 6 ; 10)	GR	E	157.914 18	0.8	6407
* 6050	Q	(2, −5 ; 22)	GR	(1, −4 ; 22)	GR	E	157.929 26	−1.8	6019
* 6051	R	(2, −4 ; 13)	GR	(1, −5 ; 12)	GR	E	157.931 37	0.9	3883
* 6052	R	(2, 4 ; 15)	GR	(1, 5 ; 14)	GR	A	157.951 61	−1.1	2621
* 6053	Q	(2, −5 ; 21)	GR	(1, −4 ; 21)	GR	E	158.003 42	0.1	5825
* 6054	Q	(2, −5 ; 20)	GR	(1, −4 ; 20)	GR	E	158.071 57	−0.4	6116
* 6055	Q	(2, −5 ; 19)	GR	(1, −4 ; 19)	GR	E	158.134 05	−0.5	6213
* 6056	R	(2, 4 ; 4)	GR	(1, 3 ; 3)	GR	A	158.173 96	−0.5	8737
* 6057	Q	(2, −5 ; 18)	GR	(1, −4 ; 18)	GR	E	158.191 21	−0.1	6407
* 6058	R	(1, 9 ; 23)	GR	(0, 10 ; 22)	GR	A	158.226 55	−1.8	2135
* 6059	Q	(2, −5 ; 17)	GR	(1, −4 ; 17)	GR	E	158.243 36	−0.5	6699
* 6060	Q	(2, −5 ; 16)	GR	(1, −4 ; 16)	GR	E	158.290 80	−1.3	8058
* 6061	P	(1, −2 ; 30)	GR	(0, −3 ; 31)	GR	E	158.325 26	2.7	2135
* 6062	Q	(2, −5 ; 15)	GR	(1, −4 ; 15)	GR	E	158.334 01	−0.4	6893
* 6063	Q	(2, −5 ; 14)	GR	(1, −4 ; 14)	GR	E	158.373 02	−0.7	7087
* 6064	P	(2, 6 ; 17)	GR	(1, 5 ; 18)	GR	E	158.375 41	3.3	2621
* 6065	Q	(2, −5 ; 13)	GR	(1, −4 ; 13)	GR	E	158.408 22	−0.1	6796
* 6066	Q	(2, −5 ; 12)	GR	(1, −4 ; 12)	GR	E	158.439 80	−0.8	6796
6067	P	(1, −4 ; 22)	GR	(0, −5 ; 23)	GR	E	158.467 95	3.8	7572
* 6068	Q	(2, −5 ; 11)	GR	(1, −4 ; 11)	GR	E	158.467 95	−1.0	7572
* 6069	Q	(2, −5 ; 10)	GR	(1, −4 ; 10)	GR	E	158.493 12	−0.8	6990
* 6070	Q	(2, −5 ; 9)	GR	(1, −4 ; 9)	GR	E	158.515 31	−0.3	6893
* 6071	P	(1, 0 ; 21)	GR	(0, 1 ; 22)	GR	E	158.520 08	−1.1	4854
* 6072	Q	(2, −5 ; 8)	GR	(1, −4 ; 8)	GR	E	158.534 58	−1.8	6601
* 6073	Q	(2, −5 ; 7)	GR	(1, −4 ; 7)	GR	E	158.551 57	0.2	6310
* 6074	R	(2, −1 ; 27)	GR	(1, −2 ; 26)	GR	E	158.560 00	−0.9	3617
* 6075	R	(1, 6 ; 31)	GR	(1, 5 ; 30)	GR	E	158.561 26	−2.1	1691

Index	upper state			lower state			σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
	T	$(n, K; J)$	v	$(n, K; J)$	v					
* 6076	Q	(2, −5 ; 6)	GR	(1, −4 ; 6)	GR	E	158.565 92	−1.6	5533
* 6077	Q	(2, −5 ; 5)	GR	(1, −4 ; 5)	GR	E	158.578 00	−1.5	0
* 6078	P	(1, 1 ; 22)	GR	(0, 0 ; 23)	GR	E	158.602 21	0.6	2135
* 6079	P	(1, 2 $^+$; 8)	GR	(0, 3 $^-$; 9)	GR	A	158.629 95	−0.6	6213
6080	P	(1, 2 ; 8)	GR	(0, 3 ; 9)	GR	A	158.631 57	5.2	5728
* 6081	P	(1, 2 $^-$; 8)	GR	(0, 3 $^+$; 9)	GR	A	158.631 57	−1.3	5728
* 6082	P	(1, −8 ; 18)	GR	(0, −9 ; 19)	GR	E	158.655 60	−0.4	1650
* 6083	P	(2, 3 ; 12)	GR	(1, 4 ; 13)	GR	E	158.657 93	0.7	1844
6084	P	(3, 1 ; 21)	GR	(2, 0 ; 22)	GR	E	158.703 78	8.3	5339
* 6085	R	(2, 2 ; 7)	GR	(2, 1 ; 6)	GR	E	158.703 78	−1.5	5339
* 6086	R	(2, 3 ; 3)	GR	(1, 2 ; 2)	GR	E	158.761 10	−0.2	6990
6087	R	(1, −8 ; 33)	GR	(1, −7 ; 32)	GR	E	158.887 97	−5.2	1650
* 6088	P	(2, 4 ; 15)	GR	(2, 3 ; 16)	GR	E	158.949 11	1.8	5825
* 6089	P	(1, 1 $^-$; 24)	GR	(0, 2 $^+$; 25)	GR	A	159.018 85	0.3	3689
* 6090	P	(1, 2 $^+$; 21)	GR	(0, 1 $^-$; 22)	GR	A	159.021 34	−0.1	3300
* 6091	P	(2, 8 ; 19)	GR	(1, 7 ; 20)	GR	A	159.039 72	−0.9	3203
* 6092	P	(1, 9 ; 15)	GR	(0, 9 ; 16)	GR	A	159.049 72	−1.5	873
* 6093	P	(2, 5 ; 11)	GR	(2, 4 ; 12)	GR	A	159.130 11	−0.7	4951
* 6094	R	(2, 3 ; 24)	GR	(1, 4 ; 23)	GR	A	159.220 13	0.5	5339
* 6095	P	(1, 1 $^+$; 24)	GR	(0, 2 $^-$; 25)	GR	A	159.256 00	−1.0	3495
* 6096	P	(3, 0 ; 22)	GR	(2, 1 ; 23)	GR	E	159.298 01	−1.1	2815
* 6097	P	(2, −3 ; 17)	GR	(2, −2 ; 18)	GR	E	159.361 77	−0.3	4951
* 6098	P	(1, 8 ; 14)	GR	(0, 9 ; 15)	GR	A	159.381 78	−0.4	5048
* 6099	P	(2, 5 ; 9)	GR	(1, 6 ; 10)	GR	E	159.411 96	1.0	3495
* 6100	Q	(1, −6 ; 33)	GR	(0, −7 ; 33)	GR	E	159.419 94	0.6	1262
* 6101	R	(2, −4 ; 14)	GR	(1, −5 ; 13)	GR	E	159.460 40	−0.1	3203
* 6102	R	(2, 4 ; 16)	GR	(1, 5 ; 15)	GR	A	159.500 68	−0.9	2524
* 6103	P	(1, 5 ; 8)	GR	(0, 6 ; 9)	GR	E	159.512 98	−1.0	4854
* 6104	P	(1, 1 ; 16)	GR	(0, 2 ; 17)	GR	E	159.547 07	−0.2	5533
* 6105	Q	(1, −6 ; 32)	GR	(0, −7 ; 32)	GR	E	159.576 22	−2.6	5339
* 6106	R	(1, 7 ; 29)	GR	(1, 6 ; 28)	GR	A	159.609 56	−1.6	5922
* 6107	R	(1, 6 ; 32)	GR	(1, 5 ; 31)	GR	E	159.720 88	1.5	1165
* 6108	Q	(1, −6 ; 31)	GR	(0, −7 ; 31)	GR	E	159.727 33	−0.2	1747
* 6109	R	(2, 4 ; 5)	GR	(1, 3 ; 4)	GR	A	159.735 48	−0.5	8932
* 6110	P	(3, 1 $^+$; 23)	GR	(2, 2 ; 24)	GR	A	159.823 61	0.4	6601
* 6111	P	(3, 1 $^-$; 23)	GR	(2, 2 ; 24)	GR	A	159.828 09	−0.3	2233
* 6112	Q	(2, −2 ; 30)	GR	(1, −1 ; 30)	GR	E	159.863 46	1.8	4271
* 6113	P	(1, −3 ; 26)	GR	(0, −2 ; 27)	GR	E	159.869 41	0.1	975
* 6114	Q	(1, −6 ; 30)	GR	(0, −7 ; 30)	GR	E	159.872 53	−0.7	1747
* 6115	Q	(2, −2 ; 29)	GR	(1, −1 ; 29)	GR	E	159.946 71	−0.3	4271
* 6116	P	(1, 1 ; 21)	GR	(0, 0 ; 22)	GR	E	159.959 87	−0.5	2233
* 6117	Q	(1, −6 ; 29)	GR	(0, −7 ; 29)	GR	E	160.012 17	−0.8	2233
* 6118	Q	(2, −2 ; 28)	GR	(1, −1 ; 28)	GR	E	160.028 00	0.5	4854
6119	P	(2, 6 ; 16)	GR	(1, 5 ; 17)	GR	E	160.036 42	−2.4	2524
* 6120	P	(1, −4 ; 21)	GR	(0, −5 ; 22)	GR	E	160.092 75	−1.7	2427
* 6121	Q	(2, −2 ; 27)	GR	(1, −1 ; 27)	GR	E	160.105 52	−0.6	5048
* 6122	P	(1, −2 ; 29)	GR	(0, −3 ; 30)	GR	E	160.118 93	1.4	1067
* 6123	Q	(1, −6 ; 28)	GR	(0, −7 ; 28)	GR	E	160.146 14	−3.3	2233
* 6124	R	(2, −1 ; 28)	GR	(1, −2 ; 27)	GR	E	160.163 52	0.3	4077
* 6125	Q	(2, −2 ; 26)	GR	(1, −1 ; 26)	GR	E	160.178 94	−1.5	5145
* 6126	P	(1, 0 ; 20)	GR	(0, 1 ; 21)	GR	E	160.212 75	0.6	5339
* 6127	Q	(1, −3 ; 34)	GR	(0, −4 ; 34)	GR	E	160.230 56	−1.1	1262
* 6128	P	(2, 3 ; 11)	GR	(1, 4 ; 12)	GR	E	160.238 42	1.8	8834
* 6129	P	(1, 2 ; 7)	GR	(0, 3 ; 8)	GR	A	160.238 42	−0.8	8834
* 6130	Q	(2, −2 ; 25)	GR	(1, −1 ; 25)	GR	E	160.248 30	1.1	5533
* 6131	R	(2, 2 ; 8)	GR	(2, 1 ; 7)	GR	E	160.265 19	0.2	4854
* 6132	Q	(1, −6 ; 27)	GR	(0, −7 ; 27)	GR	E	160.275 03	0.1	2718
* 6133	P	(1, −8 ; 17)	GR	(0, −9 ; 18)	GR	E	160.284 09	−0.6	1747
* 6134	P	(3, 1 ; 20)	GR	(2, 0 ; 21)	GR	E	160.294 40	0.2	3398
* 6135	Q	(2, −2 ; 24)	GR	(1, −1 ; 24)	GR	E	160.313 64	0.9	5825
* 6136	R	(2, 3 ; 4)	GR	(1, 2 ; 3)	GR	E	160.324 72	−0.4	7572
* 6137	Q	(2, −2 ; 23)	GR	(1, −1 ; 23)	GR	E	160.375 09	0.1	6504
* 6138	Q	(1, −6 ; 26)	GR	(0, −7 ; 26)	GR	E	160.398 37	−0.1	2815
* 6139	Q	(1, −3 ; 33)	GR	(0, −4 ; 33)	GR	E	160.416 42	0.1	1111
* 6140	Q	(2, −2 ; 22)	GR	(1, −1 ; 22)	GR	E	160.432 88	0.0	6601
* 6141	Q	(2, −2 ; 21)	GR	(1, −1 ; 21)	GR	E	160.487 05	−0.6	6796
* 6142	P	(1, 2 $^-$; 25)	GR	(0, 1 $^+$; 26)	GR	A	160.500 52	−0.3	3009
* 6143	Q	(1, −6 ; 25)	GR	(0, −7 ; 25)	GR	E	160.516 49	0.3	3009
* 6144	P	(2, 4 ; 14)	GR	(2, 3 ; 15)	GR	E	160.528 86	−1.0	3980
* 6145	Q	(2, −2 ; 20)	GR	(1, −1 ; 20)	GR	E	160.537 78	−0.3	6601
* 6146	Q	(2, −2 ; 19)	GR	(1, −1 ; 19)	GR	E	160.585 22	1.0	6990
6147	Q	(1, −3 ; 32)	GR	(0, −4 ; 32)	GR	E	160.594 50	7.8	4563
* 6148	Q	(2, −1 ; 25)	GR	(1, 0 ; 25)	GR	E	160.603 89	0.5	3300
6149	Q	(2, −1 ; 24)	GR	(1, 0 ; 24)	GR	E	160.606 01	5.3	7378
6150	Q	(2, −1 ; 26)	GR	(1, 0 ; 26)	GR	E	160.606 01	5.2	7378



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 6151	R (2, 3 ; 25) GR	←	(1, 4 ; 24) GR	A	160.606 01	−3.5	7378
* 6152	Q (2, −1 ; 23) GR	←	(1, 0 ; 23) GR	E	160.610 32	1.3	4757
* 6153	Q (2, −1 ; 27) GR	←	(1, 0 ; 27) GR	E	160.610 32	−1.4	4757
* 6154	Q (2, −1 ; 22) GR	←	(1, 0 ; 22) GR	E	160.617 17	−0.8	3689
* 6155	Q (2, −1 ; 28) GR	←	(1, 0 ; 28) GR	E	160.619 60	−0.4	2524
* 6156	R (1, −8 ; 34) GR	←	(1, −7 ; 33) GR	E	160.621 78	−1.0	2038
* 6157	Q (2, −1 ; 21) GR	←	(1, 0 ; 21) GR	E	160.626 48	0.6	3883
* 6158	Q (2, −2 ; 18) GR	←	(1, −1 ; 18) GR	E	160.629 32	−0.2	7766
* 6159	Q (1, −6 ; 24) GR	←	(0, −7 ; 24) GR	E	160.629 32	−1.7	7766
* 6160	Q (2, −1 ; 29) GR	←	(1, 0 ; 29) GR	E	160.632 99	−1.3	2135
* 6161	Q (2, −1 ; 20) GR	←	(1, 0 ; 20) GR	E	160.637 53	0.8	3786
* 6162	P (2, 8 ; 18) GR	←	(1, 7 ; 19) GR	A	160.638 92	−0.8	3980
* 6163	Q (2, −1 ; 19) GR	←	(1, 0 ; 19) GR	E	160.650 09	−0.6	4174
* 6164	Q (2, −1 ; 18) GR	←	(1, 0 ; 18) GR	E	160.664 02	0.2	4563
6165	P (1, 9 ; 14) GR	←	(0, 9 ; 15) GR	A	160.670 48	5.8	7669
* 6166	Q (2, −2 ; 17) GR	←	(1, −1 ; 17) GR	E	160.670 48	−0.4	7669
* 6167	Q (2, −1 ; 31) GR	←	(1, 0 ; 31) GR	E	160.674 53	1.4	1844
* 6168	Q (2, −1 ; 17) GR	←	(1, 0 ; 17) GR	E	160.678 77	−0.7	4951
* 6169	Q (2, −1 ; 16) GR	←	(1, 0 ; 16) GR	E	160.694 35	0.8	4660
* 6170	Q (2, −1 ; 32) GR	←	(1, 0 ; 32) GR	E	160.702 76	−1.5	1747
* 6171	P (2, 5 ; 10) GR	←	(2, 4 ; 11) GR	A	160.705 15	−0.4	4757
* 6172	Q (2, −2 ; 16) GR	←	(1, −1 ; 16) GR	E	160.708 69	−0.4	6990
* 6173	Q (2, −1 ; 15) GR	←	(1, 0 ; 15) GR	E	160.710 24	0.1	4304
* 6174	Q (2, −1 ; 14) GR	←	(1, 0 ; 14) GR	E	160.726 37	−0.8	5242
* 6175	Q (1, −6 ; 23) GR	←	(0, −7 ; 23) GR	E	160.737 25	0.0	4174
* 6176	Q (2, −1 ; 13) GR	←	(1, 0 ; 13) GR	E	160.742 35	−1.5	5205
* 6177	Q (2, −2 ; 15) GR	←	(1, −1 ; 15) GR	E	160.743 95	−0.4	7281
* 6178	P (1, 1 −; 23) GR	←	(0, 2 +; 24) GR	A	160.756 20	−0.4	5048
* 6179	Q (2, −1 ; 12) GR	←	(1, 0 ; 12) GR	E	160.758 49	−0.2	5339
* 6180	Q (1, −3 ; 31) GR	←	(0, −4 ; 31) GR	E	160.763 42	0.8	1553
* 6181	Q (2, −1 ; 11) GR	←	(1, 0 ; 11) GR	E	160.773 94	0.7	5436
* 6182	Q (2, −2 ; 14) GR	←	(1, −1 ; 14) GR	E	160.776 56	−0.7	8058
* 6183	Q (2, −1 ; 10) GR	←	(1, 0 ; 10) GR	E	160.788 60	−1.0	5242
* 6184	Q (2, −1 ; 9) GR	←	(1, 0 ; 9) GR	E	160.802 50	−1.1	7475
* 6185	Q (2, −2 ; 13) GR	←	(1, −1 ; 13) GR	E	160.806 62	0.2	7864
* 6186	Q (2, −1 ; 8) GR	←	(1, 0 ; 8) GR	E	160.815 68	−0.5	4854
* 6187	Q (2, −1 ; 7) GR	←	(1, 0 ; 7) GR	E	160.827 59	0.4	5436
* 6188	Q (2, −2 ; 12) GR	←	(1, −1 ; 12) GR	E	160.834 01	−0.5	8446
* 6189	Q (2, −1 ; 6) GR	←	(1, 0 ; 6) GR	E	160.838 29	0.4	4660
* 6190	Q (1, −6 ; 22) GR	←	(0, −7 ; 22) GR	E	160.840 09	1.4	3689
* 6191	Q (2, −1 ; 5) GR	←	(1, 0 ; 5) GR	E	160.847 82	0.9	4660
* 6192	Q (2, −1 ; 4) GR	←	(1, 0 ; 4) GR	E	160.855 66	−0.1	4466
* 6193	Q (2, −2 ; 11) GR	←	(1, −1 ; 11) GR	E	160.858 97	−0.4	7766
* 6194	Q (2, −1 ; 3) GR	←	(1, 0 ; 3) GR	E	160.861 92	−2.3	3883
* 6195	Q (2, −1 ; 2) GR	←	(1, 0 ; 2) GR	E	160.867 13	1.2	2427
* 6196	Q (2, −1 ; 1) GR	←	(1, 0 ; 1) GR	E	160.870 09	−2.1	2233
* 6197	Q (2, −2 ; 10) GR	←	(1, −1 ; 10) GR	E	160.881 57	−0.4	7669
* 6198	P (3, 0 ; 21) GR	←	(2, 1 ; 22) GR	E	160.890 65	0.1	3592
* 6199	Q (2, −2 ; 9) GR	←	(1, −1 ; 9) GR	E	160.902 01	0.7	8446
* 6200	P (1, 1 +; 23) GR	←	(0, 2 −; 24) GR	A	160.902 01	−3.2	8446
* 6201	P (1, 2 +; 20) GR	←	(0, 1 −; 21) GR	A	160.912 99	−1.0	3592
* 6202	Q (2, −2 ; 8) GR	←	(1, −1 ; 8) GR	E	160.919 97	0.4	7475
* 6203	Q (1, −3 ; 30) GR	←	(0, −4 ; 30) GR	E	160.925 32	−0.5	1941
* 6204	Q (2, −2 ; 7) GR	←	(1, −1 ; 7) GR	E	160.935 78	−0.6	7475
* 6205	Q (1, −6 ; 21) GR	←	(0, −7 ; 21) GR	E	160.937 78	0.7	4077
* 6206	P (2, −3 ; 16) GR	←	(2, −2 ; 17) GR	E	160.944 55	−0.3	4466
* 6207	Q (2, −2 ; 6) GR	←	(1, −1 ; 6) GR	E	160.949 63	−0.3	7281
* 6208	Q (2, −2 ; 5) GR	←	(1, −1 ; 5) GR	E	160.961 41	−0.5	6796
* 6209	Q (2, −2 ; 4) GR	←	(1, −1 ; 4) GR	E	160.971 12	1.0	6699
* 6210	Q (2, −2 ; 3) GR	←	(1, −1 ; 3) GR	E	160.978 83	0.2	6310
* 6211	R (2, −4 ; 15) GR	←	(1, −5 ; 14) GR	E	160.984 61	1.4	6019
* 6212	Q (2, −2 ; 2) GR	←	(1, −1 ; 2) GR	E	160.984 61	0.2	6019
* 6213	P (2, 5 ; 8) GR	←	(1, 6 ; 9) GR	E	160.998 54	−0.2	3883
* 6214	P (1, 8 ; 13) GR	←	(0, 9 ; 14) GR	A	161.024 96	−0.4	5533
* 6215	Q (1, −6 ; 20) GR	←	(0, −7 ; 20) GR	E	161.030 57	0.5	4466
* 6216	R (2, 4 ; 17) GR	←	(1, 5 ; 16) GR	A	161.048 64	0.6	2330
* 6217	Q (1, −3 ; 29) GR	←	(0, −4 ; 29) GR	E	161.079 72	−0.2	2524
* 6218	P (1, 5 ; 7) GR	←	(0, 6 ; 8) GR	E	161.111 12	−0.6	5339
* 6219	Q (1, −6 ; 19) GR	←	(0, −7 ; 19) GR	E	161.118 40	−0.8	4174
* 6220	Q (1, −6 ; 18) GR	←	(0, −7 ; 18) GR	E	161.201 67	−0.7	4854
* 6221	Q (1, −3 ; 28) GR	←	(0, −4 ; 28) GR	E	161.226 98	0.1	6504
* 6222	P (1, 1 ; 15) GR	←	(0, 2 ; 16) GR	E	161.226 98	−0.2	6504
* 6223	Q (1, −6 ; 17) GR	←	(0, −7 ; 17) GR	E	161.280 06	−0.2	5242
* 6224	R (2, 4 ; 6) GR	←	(1, 3 ; 5) GR	A	161.295 22	0.6	8932
* 6225	P (1, 1 ; 20) GR	←	(0, 0 ; 21) GR	E	161.338 03	−0.3	3009

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 6226	Q (1, −6 ; 16) GR	←	(0, −7 ; 16) GR	E	161.353 62	−2.9	5339
* 6227	Q (1, −3 ; 27) GR	←	(0, −4 ; 27) GR	E	161.367 25	−0.5	3009
* 6228	R (1, 7 ; 30) GR	←	(1, 6 ; 29) GR	A	161.384 53	0.6	4368
* 6229	P (3, 1 +; 22) GR	←	(2, 2 ; 23) GR	A	161.418 44	1.8	2815
* 6230	P (3, 1 −; 22) GR	←	(2, 2 ; 23) GR	A	161.422 71	0.2	5728
* 6231	Q (1, −6 ; 15) GR	←	(0, −7 ; 15) GR	E	161.422 71	−2.1	5728
* 6232	Q (1, −6 ; 14) GR	←	(0, −7 ; 14) GR	E	161.487 48	−0.6	4951
* 6233	Q (1, −3 ; 26) GR	←	(0, −4 ; 26) GR	E	161.500 86	0.9	3883
* 6234	Q (1, −6 ; 13) GR	←	(0, −7 ; 13) GR	E	161.547 54	−0.9	4951
* 6235	Q (1, −6 ; 12) GR	←	(0, −7 ; 12) GR	E	161.603 06	−0.3	4660
* 6236	Q (1, −3 ; 25) GR	←	(0, −4 ; 25) GR	E	161.627 51	−2.5	5242
* 6237	Q (1, −6 ; 11) GR	←	(0, −7 ; 11) GR	E	161.654 14	−0.6	4660
6238	R (1, −7 ; 14) GR	←	(0, −8 ; 13) GR	E	161.685 30	−5.6	1359
* 6239	P (2, 6 ; 15) GR	←	(1, 5 ; 16) GR	E	161.687 49	1.0	1553
* 6240	Q (1, −6 ; 10) GR	←	(0, −7 ; 10) GR	E	161.700 88	1.0	4660
* 6241	P (1, −4 ; 20) GR	←	(0, −5 ; 21) GR	E	161.718 30	−0.6	3106
* 6242	Q (1, −6 ; 9) GR	←	(0, −7 ; 9) GR	E	161.743 16	−0.2	4368
* 6243	Q (1, −3 ; 24) GR	←	(0, −4 ; 24) GR	E	161.748 20	−0.8	4466
* 6244	P (1, 2 −; 24) GR	←	(0, 1 +; 25) GR	A	161.768 43	0.2	2815
* 6245	R (2, −1 ; 29) GR	←	(1, −2 ; 28) GR	E	161.773 97	−0.4	3203
* 6246	Q (1, −6 ; 8) GR	←	(0, −7 ; 8) GR	E	161.781 52	2.8	5145
* 6247	Q (1, −6 ; 7) GR	←	(0, −7 ; 7) GR	E	161.814 85	−0.6	2621
* 6248	P (2, 3 ; 10) GR	←	(1, 4 ; 11) GR	E	161.818 38	−0.3	1941
* 6249	R (2, 2 ; 9) GR	←	(2, 1 ; 8) GR	E	161.825 07	−0.5	4951
* 6250	P (1, 2 ; 6) GR	←	(0, 3 ; 7) GR	A	161.841 73	0.0	8446
* 6251	Q (1, −3 ; 23) GR	←	(0, −4 ; 23) GR	E	161.862 52	−0.3	4563
6252	P (1, −3 ; 25) GR	←	(0, −2 ; 26) GR	E	161.878 19	4.0	1553
* 6253	P (3, 1 ; 19) GR	←	(2, 0 ; 20) GR	E	161.884 59	−1.9	3838
* 6254	R (2, 3 ; 5) GR	←	(1, 2 ; 4) GR	E	161.886 52	0.2	7281
* 6255	P (1, 0 ; 19) GR	←	(0, 1 ; 20) GR	E	161.898 71	0.3	5728
* 6256	P (1, −2 ; 28) GR	←	(0, −3 ; 29) GR	E	161.898 71	−3.6	5728
* 6257	P (1, −8 ; 16) GR	←	(0, −9 ; 17) GR	E	161.910 80	1.5	1844
* 6258	Q (1, −3 ; 22) GR	←	(0, −4 ; 22) GR	E	161.970 99	1.1	6310
* 6259	R (2, 3 ; 26) GR	←	(1, 4 ; 25) GR	A	161.977 06	1.4	4757
* 6260	Q (1, −3 ; 21) GR	←	(0, −4 ; 21) GR	E	162.073 27	−0.9	5339
* 6261	P (2, 4 ; 13) GR	←	(2, 3 ; 14) GR	E	162.108 51	−0.1	4368
* 6262	Q (1, −3 ; 20) GR	←	(0, −4 ; 20) GR	E	162.169 93	−0.2	5339
* 6263	P (2, 8 ; 17) GR	←	(1, 7 ; 18) GR	A	162.236 32	−1.6	6213
* 6264	Q (1, −3 ; 19) GR	←	(0, −4 ; 19) GR	E	162.261 15	0.0	5825
* 6265	P (2, 5 ; 9) GR	←	(2, 4 ; 10) GR	A	162.279 79	−0.1	4368
* 6266	P (1, 9 ; 13) GR	←	(0, 9 ; 14) GR	A	162.286 18	0.5	1067
* 6267	Q (1, −3 ; 18) GR	←	(0, −4 ; 18) GR	E	162.346 87	−0.7	5825
* 6268	R (1, −8 ; 35) GR	←	(1, −7 ; 34) GR	E	162.368 26	−1.4	2427
* 6269	Q (1, −3 ; 17) GR	←	(0, −4 ; 17) GR	E	162.427 33	0.5	5825
* 6270	R (2, −1 ; 1) GR	←	(1, 0 ; 0) GR	E	162.440 70	−1.4	1553
* 6271	P (1, 1 −; 22) GR	←	(0, 2 +; 23) GR	A	162.480 65	−0.5	4563
* 6272	P (3, 0 ; 20) GR	←	(2, 1 ; 21) GR	E	162.482 62	1.4	3106
* 6273	Q (1, −3 ; 16) GR	←	(0, −4 ; 16) GR	E	162.502 69	0.4	7669
* 6274	R (2, −4 ; 16) GR	←	(1, −5 ; 15) GR	E	162.502 69	−2.7	7669
* 6275	P (2, −3 ; 15) GR	←	(2, −2 ; 16) GR	E	162.526 84	−0.2	4368
* 6276	P (1, 1 +; 22) GR	←	(0, 2 −; 23) GR	A	162.549 87	0.1	3883
* 6277	Q (1, −3 ; 15) GR	←	(0, −4 ; 15) GR	E	162.572 77	−0.4	6504
* 6278	P (2, 5 ; 7) GR	←	(1, 6 ; 8) GR	E	162.584 91	1.2	3786
* 6279	R (2, 4 ; 18) GR	←	(1, 5 ; 17) GR	A	162.594 32	0.1	2233
* 6280	Q (1, −3 ; 14) GR	←	(0, −4 ; 14) GR	E	162.638 11	0.9	6601
* 6281	P (1, 8 ; 12) GR	←	(0, 9 ; 13) GR	A	162.663 80	1.3	5922
* 6282	Q (1, −3 ; 13) GR	←	(0, −4 ; 13) GR	E	162.698 51	0.1	6699
* 6283	P (1, 5 ; 6) GR	←	(0, 6 ; 7) GR	E	162.707 73	−1.3	5145
* 6284	P (1, 1 ; 19) GR	←	(0, 0 ; 20) GR	E	162.736 74	−1.2	3106
* 6285	Q (1, −3 ; 12) GR	←	(0, −4 ; 12) GR	E	162.754 21	−0.8	6796
* 6286	Q (2, −6 ; 35) GR	←	(2, −5 ; 35) GR	E	162.756 60	−1.0	2038
* 6287	Q (2, −6 ; 34) GR	←	(2, −5 ; 34) GR	E	162.785 60	−1.2	1359
* 6288	P (1, 2 +; 19) GR	←	(0, 1 −; 20) GR	A	162.795 92	−0.6	4757
* 6289	Q (1, −3 ; 11) GR	←	(0, −4 ; 11) GR	E	162.805 28	−0.7	6601
* 6290	Q (2, −6 ; 33) GR	←	(2, −5 ; 33) GR	E	162.813 09	−0.4	1844
* 6291	Q (2, −6 ; 32) GR	←	(2, −5 ; 32) GR	E	162.838 04	−2.0	1941
6292	Q (1, −3 ; 10) GR	←	(0, −4 ; 10) GR	E	162.852 39	4.7	9708
* 6293	R (2, 4 ; 7) GR	←	(1, 3 ; 6) GR	A	162.852 39	−2.6	9708
* 6294	Q (2, −6 ; 31) GR	←	(2, −5 ; 31) GR	E	162.861 89	−1.7	2233
* 6295	Q (2, −6 ; 30) GR	←	(2, −5 ; 30) GR	E	162.883 99	−1.8	4271
* 6296	Q (1, −3 ; 9) GR	←	(0, −4 ; 9) GR	E	162.893 82	−0.4	6601
* 6297	P (1, 1 ; 14) GR	←	(0, 2 ; 15) GR	E	162.901 62	0.3	5339
* 6298	Q (2, −6 ; 29) GR	←	(2, −5 ; 29) GR	E	162.905 32	0.2	2524
* 6299	Q (2, −6 ; 28) GR	←	(2, −5 ; 28) GR	E	162.924 69	0.5	3106
* 6300	Q (1, −3 ; 8) GR	←	(0, −4 ; 8) GR	E	162.931 48	0.0	6213



Index	upper state					lower state					$\tilde{\nu}$	$\delta\tilde{\nu}\cdot 10^4$	Int.
	T	$(n, K; J)$	v			$(n, K; J)$	v	σ			/cm^{-1}	/cm^{-1}	/a.u.
* 6301	Q	(2, −6 ; 27)	GR	←		(2, −5 ; 27)	GR	E			162.942 72	0.4	3300
* 6302	Q	(2, −6 ; 26)	GR	←		(2, −5 ; 26)	GR	E			162.959 45	−1.4	3883
* 6303	Q	(1, −3 ; 7)	GR	←		(0, −4 ; 7)	GR	E			162.964 74	−1.0	5825
* 6304	Q	(2, −6 ; 25)	GR	←		(2, −5 ; 25)	GR	E			162.975 24	−0.4	4174
* 6305	Q	(2, −6 ; 24)	GR	←		(2, −5 ; 24)	GR	E			162.989 70	−0.6	4757
* 6306	Q	(1, −3 ; 6)	GR	←		(0, −4 ; 6)	GR	E			162.993 76	−0.3	5533
* 6307	Q	(2, −6 ; 23)	GR	←		(2, −5 ; 23)	GR	E			163.003 28	−0.4	4757
6308	P	(3, 1 +; 21)	GR	←		(2, 2 ; 22)	GR	A			163.012 35	5.7	4951
* 6309	Q	(2, −6 ; 22)	GR	←		(2, −5 ; 22)	GR	E			163.015 56	−0.2	5825
* 6310	P	(3, 1 −; 21)	GR	←		(2, 2 ; 22)	GR	A			163.015 56	−1.3	5825
* 6311	Q	(1, −3 ; 5)	GR	←		(0, −4 ; 5)	GR	E			163.018 50	−0.3	5242
* 6312	Q	(2, −6 ; 21)	GR	←		(2, −5 ; 21)	GR	E			163.026 98	−1.3	5242
* 6313	Q	(2, −6 ; 20)	GR	←		(2, −5 ; 20)	GR	E			163.037 56	−0.9	4744
* 6314	Q	(1, −3 ; 4)	GR	←		(0, −4 ; 4)	GR	E			163.038 93	−1.6	3105
* 6315	Q	(2, −6 ; 19)	GR	←		(2, −5 ; 19)	GR	E			163.047 45	0.0	5436
* 6316	P	(1, 2 −; 23)	GR	←		(0, 1 +; 24)	GR	A			163.051 18	−0.2	2718
* 6317	Q	(2, −6 ; 18)	GR	←		(2, −5 ; 18)	GR	E			163.056 29	−2.0	5339
* 6318	Q	(2, −6 ; 17)	GR	←		(2, −5 ; 17)	GR	E			163.064 60	−1.1	6116
* 6319	Q	(2, −6 ; 16)	GR	←		(2, −5 ; 16)	GR	E			163.072 19	0.7	6116
* 6320	Q	(2, −6 ; 15)	GR	←		(2, −5 ; 15)	GR	E			163.078 91	−1.3	6407
* 6321	Q	(2, −6 ; 14)	GR	←		(2, −5 ; 14)	GR	E			163.085 12	−0.4	6116
* 6322	Q	(2, −6 ; 13)	GR	←		(2, −5 ; 13)	GR	E			163.090 86	0.4	6116
* 6323	Q	(2, −6 ; 12)	GR	←		(2, −5 ; 12)	GR	E			163.095 89	−0.3	6601
* 6324	Q	(2, −6 ; 11)	GR	←		(2, −5 ; 11)	GR	E			163.100 48	−0.4	6796
* 6325	Q	(2, −6 ; 10)	GR	←		(2, −5 ; 10)	GR	E			163.104 58	0.3	6213
* 6326	Q	(2, −6 ; 9)	GR	←		(2, −5 ; 9)	GR	E			163.108 00	−2.2	0
* 6327	Q	(2, −6 ; 8)	GR	←		(2, −5 ; 8)	GR	E			163.111 00	−3.0	0
* 6328	Q	(2, −6 ; 7)	GR	←		(2, −5 ; 7)	GR	E			163.114 00	−2.5	0
* 6329	Q	(2, −6 ; 6)	GR	←		(2, −5 ; 6)	GR	E			163.116 50	−0.7	0
* 6330	R	(3, −3 ; 5)	GR	←		(2, −4 ; 4)	GR	E			163.150 52	2.8	970
* 6331	R	(1, 7 ; 31)	GR	←		(1, 6 ; 30)	GR	A			163.173 81	−0.5	4660
* 6332	R	(1, −7 ; 15)	GR	←		(0, −8 ; 14)	GR	E			163.183 68	0.9	1456
* 6333	P	(1, 0 ; 26)	GR	←		(0, −1 ; 27)	GR	E			163.229 51	1.6	873
* 6334	P	(2, 6 ; 14)	GR	←		(1, 5 ; 15)	GR	E			163.328 19	−2.0	1650
* 6335	R	(2, 3 ; 27)	GR	←		(1, 4 ; 26)	GR	A			163.332 24	−0.4	4368
* 6336	P	(1, −4 ; 19)	GR	←		(0, −5 ; 20)	GR	E			163.343 66	0.8	3009
* 6337	R	(2, 2 ; 10)	GR	←		(2, 1 ; 9)	GR	E			163.383 76	0.1	5825
* 6338	R	(2, −1 ; 30)	GR	←		(1, −2 ; 29)	GR	E			163.392 24	0.7	3203
* 6339	P	(2, 3 ; 9)	GR	←		(1, 4 ; 10)	GR	E			163.398 30	1.2	1747
* 6340	P	(1, 2 ; 5)	GR	←		(0, 3 ; 6)	GR	A			163.440 63	−1.6	7475
* 6341	R	(2, 3 ; 6)	GR	←		(1, 2 ; 5)	GR	E			163.446 31	−0.8	7864
* 6342	P	(3, 1 ; 18)	GR	←		(2, 0 ; 19)	GR	E			163.474 42	−0.6	4077
* 6343	P	(1, −8 ; 15)	GR	←		(0, −9 ; 16)	GR	E			163.534 25	−1.4	1650
* 6344	P	(1, 0 ; 18)	GR	←		(0, 1 ; 19)	GR	E			163.578 06	0.1	5533
* 6345	P	(1, −2 ; 27)	GR	←		(0, −3 ; 28)	GR	E			163.666 34	−0.9	2135
* 6346	P	(2, 4 ; 12)	GR	←		(2, 3 ; 13)	GR	E			163.687 59	−1.0	4174
* 6347	P	(2, 8 ; 16)	GR	←		(1, 7 ; 17)	GR	A			163.832 60	−0.1	3980
* 6348	P	(2, 5 ; 8)	GR	←		(2, 4 ; 9)	GR	A			163.853 93	−0.8	4466
* 6349	P	(1, −3 ; 24)	GR	←		(0, −2 ; 25)	GR	E			163.858 41	−1.6	2330
* 6350	R	(2, −1 ; 2)	GR	←		(1, 0 ; 1)	GR	E			164.008 04	0.0	2038
* 6351	R	(2, −4 ; 17)	GR	←		(1, −5 ; 16)	GR	E			164.015 80	0.1	3398
* 6352	P	(3, 0 ; 19)	GR	←		(2, 1 ; 20)	GR	E			164.073 39	0.3	3786
* 6353	P	(2, −3 ; 14)	GR	←		(2, −2 ; 15)	GR	E			164.108 61	−0.1	4563
* 6354	R	(2, −2 ; 2)	GR	←		(1, −1 ; 1)	GR	E			164.125 97	0.6	6504
* 6355	R	(2, 4 ; 19)	GR	←		(1, 5 ; 18)	GR	A			164.153 20	0.6	1650
* 6356	P	(1, 1 ; 18)	GR	←		(0, 0 ; 19)	GR	E			164.156 03	−0.7	3495
* 6357	P	(2, 5 ; 6)	GR	←		(1, 6 ; 7)	GR	E			164.170 50	0.2	4077
* 6358	P	(1, 1 −; 21)	GR	←		(0, 2 +; 22)	GR	A			164.192 77	0.0	4854
* 6359	P	(1, 1 +; 21)	GR	←		(0, 2 −; 22)	GR	A			164.198 12	−0.5	3980
* 6360	Q	(1, 9 ; 20)	GR	←		(0, 10 ; 20)	GR	E			164.230 51	−0.9	1165
* 6361	R	(1, 11 ; 11)	GR	←		(1, 10 ; 10)	GR	A			164.295 26	−1.3	7961
* 6362	P	(1, 8 ; 11)	GR	←		(0, 9 ; 12)	GR	A			164.297 68	−1.1	6504
* 6363	P	(1, 5 ; 5)	GR	←		(0, 6 ; 6)	GR	E			164.302 22	−1.7	5048
* 6364	P	(1, 2 −; 22)	GR	←		(0, 1 +; 23)	GR	A			164.348 26	−1.2	3398
* 6365	Q	(1, 9 ; 18)	GR	←		(0, 10 ; 18)	GR	E			164.352 33	2.4	2038
* 6366	R	(2, 4 ; 8)	GR	←		(1, 3 ; 7)	GR	A			164.408 11	0.2	8737
* 6367	Q	(1, 9 ; 17)	GR	←		(0, 10 ; 17)	GR	E			164.409 81	1.5	920
* 6368	Q	(1, 9 ; 16)	GR	←		(0, 10 ; 16)	GR	E			164.464 72	−1.7	1359
* 6369	Q	(1, 9 ; 15)	GR	←		(0, 10 ; 15)	GR	E			164.517 80	0.8	1359
* 6370	P	(1, 1 ; 13)	GR	←		(0, 2 ; 14)	GR	E			164.569 33	−0.4	6019
* 6371	P	(3, 1 +; 20)	GR	←		(2, 2 ; 21)	GR	A			164.604 81	−0.1	3300
6372	P	(3, 1 −; 20)	GR	←		(2, 2 ; 21)	GR	A			164.607 89	−3.6	2912
* 6373	Q	(1, 9 ; 13)	GR	←		(0, 10 ; 13)	GR	E			164.615 48	−1.3	1165
* 6374	P	(1, 0 ; 25)	GR	←		(0, −1 ; 26)	GR	E			164.651 13	−2.0	1359
* 6375	Q	(1, 9 ; 12)	GR	←		(0, 10 ; 12)	GR	E			164.660 35	−0.4	1262

Index	upper state					lower state					$\tilde{\nu}$	$\delta\tilde{\nu}\cdot 10^4$	Int.
	T	$(n, K; J)$	v			$(n, K; J)$	v	σ			/cm^{-1}	/cm^{-1}	/a.u.
* 6376	P	(1, 2 +; 18)	GR	←		(0, 1 −; 19)	GR	A			164.669 19	0.0	4174
* 6377	R	(2, 3 ; 28)	GR	←		(1, 4 ; 27)	GR	A			164.671 79	−1.7	4174
* 6378	R	(1, −7 ; 16)	GR	←		(0, −8 ; 15)	GR	E			164.673 72	1.7	1650
* 6379	Q	(1, 9 ; 11)	GR	←		(0, 10 ; 11)	GR	E			164.702 13	0.2	1262
* 6380	R	(3, −3 ; 6)	GR	←		(2, −4 ; 5)	GR	E			164.711 14	1.3	1456
6381	Q	(1, 9 ; 10)	GR	←		(0, 10 ; 10)	GR	E			164.741 09	3.6	1650
* 6382	R	(2, 2 ; 11)	GR	←		(2, 1 ; 10)	GR	E			164.941 14	−0.1	5339
* 6383	P	(2, 6 ; 13)	GR	←		(1, 5 ; 14)	GR	E			164.959 97	−0.3	1650
* 6384	P	(1, −4 ; 18)	GR	←		(0, −5 ; 19)	GR	E			164.968 46	0.1	2912
* 6385	P	(2, 3 ; 8)	GR	←		(1, 4 ; 9)	GR	E			164.977 63	0.2	4757
* 6386	R	(1, 7 ; 32)	GR	←		(1, 6 ; 31)	GR	A			164.977 63	−0.9	4757
* 6387	R	(2, 3 ; 7)	GR	←		(1, 2 ; 6)	GR	E			165.004 19	0.1	7864
* 6388	R	(2, −1 ; 31)	GR	←		(1, −2 ; 30)	GR	E			165.018 97	0.0	2621
* 6389	P	(1, 2 ; 4)	GR	←		(0, 3 ; 5)	GR	A			165.035 50	0.2	7864
* 6390	P	(3, 1 ; 17)	GR	←		(2, 0 ; 18)	GR	E			165.063 02	−0.7	4271
* 6391	P	(1, −8 ; 14)	GR	←		(0, −9 ; 15)	GR	E			165.155 79	0.3	2233
* 6392	P	(1, 0 ; 17)	GR	←		(0, 1 ; 18)	GR	E			165.250 64	−0.5	5825
* 6393	P	(2, 4 ; 11)	GR	←		(2, 3 ; 12)	GR	E			165.266 06	−0.3	4368
* 6394	P	(1, −2 ; 26)	GR	←		(0, −3 ; 27)	GR	E			165.421 50	−1.3	2233
* 6395	P	(2, 8 ; 15)	GR	←		(1, 7 ; 16)	GR	A			165.427 45	1.5	5728
* 6396	P	(2, 5 ; 7)	GR	←		(2, 4 ; 8)	GR	A			165.427 45	−2.1	5728
* 6397	R	(2, −4 ; 18)	GR	←		(1, −5 ; 17)	GR	E			165.522 28	−0.3	3398
* 6398	R	(2, −1 ; 3)	GR	←		(1, 0 ; 2)	GR	E			165.573 68	0.7	2524
* 6399	P	(1, 1 ; 17)	GR	←		(0, 0 ; 18)	GR	E			165.595 61	−1.1	4271
* 6400	P	(1, 2 −; 21)	GR	←		(0, 1 +; 22)	GR	A			165.660 29	0.5	3398
* 6401	P	(3, 0 ; 18)	GR	←		(2, 1 ; 19)	GR	E			165.663 31	−0.6	3786
6402	P	(2, −3 ; 13)	GR	←		(2, −2 ; 14)	GR	E			165.690 52	6.8	7864
* 6403	R	(2, −2 ; 3)	GR	←		(1, −1 ; 2)	GR	E			165.690 52	−1.9	7864
* 6404	R	(2, 4 ; 20)	GR	←		(1, 5 ; 19)	GR	A			165.693 27	−1.3	2330
* 6405	P	(2, 5 ; 5)	GR	←		(1, 6 ; 6)	GR	E			165.754 91	0.3	4174
* 6406	P	(1, −3 ; 23)	GR	←		(0, −2 ; 24)	GR	E			165.811 11	−0.6	1747
* 6407	P	(1, 1 +; 20)	GR	←		(0, 2 −; 21)	GR	A			165.846 73	0.3	4466
* 6408	R	(1, 11 ; 12)	GR	←		(1, 10 ; 11)	GR	A			165.858 73	−1.2	7475
* 6409	P	(1, 1 −; 20)	GR	←		(0, 2 +; 21)	GR	A			165.892 91	−0.2	5048
* 6410	P	(1, 8 ; 10)	GR	←		(0, 9 ; 11)	GR	A			165.927 15	−0.1	5922
* 6411	R	(2, 4 ; 9)	GR	←		(1, 3 ; 8)	GR	A			165.961 32	0.6	8737
* 6412	R	(2, 3 ; 29)	GR	←		(1, 4 ; 28)	GR	A			165.995 89	−0.8	3883
* 6413	P	(1, 0 ; 24)	GR	←		(0, −1 ; 25)	GR	E			166.090 97	0.9	873
* 6414	R	(1, −7 ; 17)	GR	←		(0, −8 ; 16)	GR	E			166.155 33	1.6	1747
* 6415	P	(3, 1 +; 19)	GR	←		(2, 2 ; 20)	GR	A			166.196 73	0.6	3398
* 6416	P	(3, 1 −; 19)	GR	←		(2, 2 ; 20)	GR	A			166.199 37	−1.6	3495
* 6417	P	(1, 1 ; 12)	GR	←		(0, 2 ; 13)	GR	E			166.229 35	−1.1	6213
* 6418	R	(3, −3 ; 7)	GR	←		(2, −4 ; 6)	GR	E			166.270 61	−1.0	2135
* 6419	R	(2, −5 ; 5)	GR	←		(1, −4 ; 4)	GR	E			166.429 02	−0.4	7572
* 6420	R	(2, 2 ; 12)	GR	←		(2, 1 ; 11)	GR	E			166.497 37	0.0	5825
* 6421	P	(1, 2 +; 17)	GR	←		(0, 1 −; 18)	GR	A			166.531 79	−0.8	4466
* 6422	P	(2, 3 ; 7)	GR	←		(1, 4 ; 8)	GR	E			166.556 34	−0.5	2135
* 6423	R	(2, 3 ; 8)	GR	←		(1, 2 ; 7)	GR	E			166.559 97	0.5	7864
* 6424	P	(2, 6 ; 12)	GR	←		(1, 5 ; 13)	GR	E			166.583 01	0.6	1456
* 6425	P	(1, −4 ; 17)	GR	←		(0, −5 ; 18)	GR	E			166.592 43	−0.8	3300
* 6426	P	(1, 2 ; 3)	GR	←		(0, 3 ; 4)	GR	A			166.626 18	−0.1	7281
* 6427	P	(3, 1 ; 16)	GR	←		(2, 0 ; 17)	GR	E			166.650 75	−0.1	4660
* 6428	R	(2, −1 ; 32)	GR	←		(1, −2 ; 31)	GR	E			166.654 44	1.0	2135
* 6429	P	(1, 11 ; 23)	GR	←		(0, 12 ; 24)	GR	A			166.670 42	−0.4	1067
* 6430	P	(1, −8 ; 13)	GR	←		(0, −9 ; 14)	GR	E			166.774 42	−0.3	2524
* 6431	R	(1, 7 ; 33)	GR	←		(1, 6 ; 32)	GR	A			166.795 82	1.5	3300
* 6432	P	(2, 4 ; 10)	GR	←		(2, 3 ; 11)	GR	E			166.843 99	−0.9	4174
* 6433	P	(1, 3 −; 31)	GR	←		(0, 4 +; 32)	GR	A			166.874 97	−0.2	776
* 6434	P	(1, 0 ; 16)	GR	←		(0, 1 ; 17)	GR	E			166.916 27	−1.0	6019
* 6435	P	(1, 3 +; 31)	GR	←		(0, 4 −; 32)	GR	A			166.941 60	1.5	679
* 6436	P	(1, 2 −; 20)	GR	←		(0, 1 +; 21)	GR	A			166.986 16	−0.2	3980
* 6437	P	(2, 5 ; 6)	GR	←		(2, 4 ; 7)	GR	A			167.000 73	−1.6	2330
* 6438	P	(2, 8 ; 14)	GR	←		(1, 7 ; 15)	GR	A			167.020 34	−0.9	4174
* 6439	R	(2, −4 ; 19)	GR	←		(1, −5 ; 18)	GR	E			167.021 79	−1.1	3300
6440	R	(3, 4 ; 6)	GR	←		(2, 5 ; 5)	GR	E			167.041 01	−9.7	1844
* 6441	P	(1, 1 ; 16)	GR	←		(0, 0 ; 17)	GR	E			167.055 27	−0.4	4466
6442	R	(2, −1 ; 4)	GR	←		(1, 0 ; 3)	GR	E			167.136 89	−4.5	3210
* 6443	P	(1, −2 ; 25)	GR	←		(0, −3 ; 26)	GR	E			167.164 87	−1.0	2718
* 6444	R	(2, 4 ; 21)	GR	←		(1, 5 ; 20)	GR	A			167.238 18	0.0	2330
* 6445	R	(1, 4 ; 6)	GR	←		(0, 5 ; 5)	GR	E			167.249 18	0.8	1262
6446	P	(3, 0 ; 17)	GR	←		(2, 1 ; 18)	GR	E			167.253 25	6.4	6796
* 6447	R	(2, −2 ; 4)	GR	←		(1, −1 ; 3)	GR	E			167.253 25	−2.0	6796
* 6448	P	(2, −3 ; 12)	GR	←		(2, −2 ; 13)	GR	E			167.270 30	−0.4	4854
* 6449	R	(2, 3 ; 30)	GR	←		(1, 4 ; 29)	GR	A			167.304 50	1.1	3203
* 6450	R	(1, 11 ; 13)	GR	←		(1, 10 ; 12)	GR	A			167.421 04	0.5	7766



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 6451	P (1, 1 +; 19) GR	←	(0, 2 −; 20) GR	A	167.495 01	0.2	4660
* 6452	R (2, 4 ; 10) GR	←	(1, 3 ; 9) GR	A	167.512 18	−0.7	8737
6453	P (1, 0 ; 23) GR	←	(0, −1 ; 24) GR	E	167.546 50	−4.5	1456
* 6454	P (1, 8 ; 9) GR	←	(0, 9 ; 10) GR	A	167.551 81	0.2	6310
* 6455	P (1, 1 −; 19) GR	←	(0, 2 +; 20) GR	A	167.581 81	−1.2	5631
* 6456	R (1, 6 ; 8) GR	←	(0, 7 ; 7) GR	A	167.590 48	−2.4	582
* 6457	R (1, −7 ; 18) GR	←	(0, −8 ; 17) GR	E	167.627 94	1.6	1359
* 6458	P (1, −3 ; 22) GR	←	(0, −2 ; 23) GR	E	167.734 70	−0.8	2330
* 6459	P (3, 1 +; 18) GR	←	(2, 2 ; 19) GR	A	167.787 49	0.6	3786
* 6460	P (3, 1 −; 18) GR	←	(2, 2 ; 19) GR	A	167.790 05	−1.6	3786
* 6461	R (3, −3 ; 8) GR	←	(2, −4 ; 7) GR	E	167.828 40	0.1	2524
* 6462	P (1, 1 ; 11) GR	←	(0, 2 ; 12) GR	E	167.880 83	−0.3	5825
* 6463	R (2, −5 ; 6) GR	←	(1, −4 ; 5) GR	E	167.986 96	−0.6	7475
* 6464	R (2, 2 ; 13) GR	←	(2, 1 ; 12) GR	E	168.052 14	0.5	5825
* 6465	R (2, 3 ; 9) GR	←	(1, 2 ; 8) GR1	E	168.113 46	0.3	7961
* 6466	P (2, 3 ; 6) GR	←	(1, 4 ; 7) GR	E	168.134 51	0.7	1844
* 6467	P (2, 6 ; 11) GR	←	(1, 5 ; 12) GR	E	168.198 28	0.1	1553
* 6468	P (1, 2 ; 2) GR	←	(0, 3 ; 3) GR	A	168.212 82	0.4	7864
* 6469	P (1, −4 ; 16) GR	←	(0, −5 ; 17) GR	E	168.215 38	−1.0	4368
* 6470	P (3, 1 ; 15) GR	←	(2, 0 ; 16) GR	E	168.237 37	0.3	4757
* 6471	P (1, 11 ; 22) GR	←	(0, 12 ; 23) GR	A	168.309 65	2.1	970
* 6472	P (1, 2 −; 19) GR	←	(0, 1 +; 20) GR	A	168.326 02	−0.5	3883
* 6473	P (1, 2 +; 16) GR	←	(0, 1 −; 17) GR	A	168.383 16	0.1	4757
* 6474	P (1, −8 ; 12) GR	←	(0, −9 ; 13) GR	E	168.390 74	0.9	2815
* 6475	P (2, 4 ; 9) GR	←	(2, 3 ; 10) GR	E	168.421 28	−0.6	3883
* 6476	R (2, −4 ; 20) GR	←	(1, −5 ; 19) GR	E	168.514 30	−0.8	3495
* 6477	P (1, 1 ; 15) GR	←	(0, 0 ; 16) GR	E	168.534 11	1.1	4174
6478	P (2, 5 ; 5) GR	←	(2, 4 ; 6) GR	A	168.573 06	−4.0	1747
* 6479	P (1, 0 ; 15) GR	←	(0, 1 ; 16) GR	E	168.575 05	−0.7	6213
6480	P (1, 3 −; 30) GR	←	(0, 4 +; 31) GR	A	168.597 94	4.4	3203
* 6481	R (3, 4 ; 7) GR	←	(2, 5 ; 6) GR	E	168.600 38	−2.2	1262
* 6482	P (2, 8 ; 13) GR	←	(1, 7 ; 14) GR	A	168.612 14	−0.4	3786
* 6483	R (1, 7 ; 34) GR	←	(1, 6 ; 33) GR	A	168.628 39	1.4	3300
* 6484	P (1, 3 +; 30) GR	←	(0, 4 −; 31) GR	A	168.649 34	−1.1	873
* 6485	R (2, −1 ; 5) GR	←	(1, 0 ; 4) GR	E	168.699 42	0.1	3106
* 6486	R (2, 4 ; 22) GR	←	(1, 5 ; 21) GR	A	168.783 52	0.5	2038
* 6487	R (1, 4 ; 7) GR	←	(0, 5 ; 6) GR	E	168.793 49	0.1	1262
* 6488	R (2, −2 ; 5) GR	←	(1, −1 ; 4) GR	E	168.814 19	−0.3	6990
* 6489	P (3, 0 ; 16) GR	←	(2, 1 ; 17) GR	E	168.840 49	0.6	4368
* 6490	P (2, −3 ; 11) GR	←	(2, −2 ; 12) GR	E	168.850 15	1.3	4660
* 6491	P (1, −2 ; 24) GR	←	(0, −3 ; 25) GR	E	168.897 28	0.8	2912
* 6492	R (1, 11 ; 14) GR	←	(1, 10 ; 13) GR	A	168.982 07	−2.1	7475
* 6493	P (1, 0 ; 22) GR	←	(0, −1 ; 23) GR	E	169.019 53	0.6	2427
* 6494	R (2, 4 ; 11) GR	←	(1, 3 ; 10) GR	A	169.060 52	−0.3	8737
* 6495	R (1, −7 ; 19) GR	←	(0, −8 ; 18) GR	E	169.091 30	−0.5	1262
* 6496	R (1, 6 ; 9) GR	←	(0, 7 ; 8) GR	A	169.122 23	−0.5	970
* 6497	P (1, 1 +; 18) GR	←	(0, 2 −; 19) GR	A	169.142 76	0.5	5339
* 6498	P (1, 8 ; 8) GR	←	(0, 9 ; 9) GR	A	169.171 64	−0.3	6310
* 6499	P (1, 1 −; 18) GR	←	(0, 2 +; 19) GR	A	169.259 91	−1.2	5728
* 6500	P (3, 1 +; 17) GR	←	(2, 2 ; 18) GR	A	169.377 33	0.2	4174
* 6501	P (3, 1 −; 17) GR	←	(2, 2 ; 18) GR	A	169.379 77	−0.8	4174
* 6502	R (3, −3 ; 9) GR	←	(2, −4 ; 8) GR	E	169.385 02	0.4	2718
* 6503	P (1, 1 ; 10) GR	←	(0, 2 ; 11) GR	E	169.523 59	−0.2	6116
* 6504	R (2, −5 ; 7) GR	←	(1, −4 ; 6) GR	E	169.542 48	−0.5	7475
* 6505	R (2, 2 ; 14) GR	←	(2, 1 ; 13) GR	E	169.605 52	0.1	5922
* 6506	P (1, −3 ; 21) GR	←	(0, −2 ; 22) GR	E	169.628 86	1.1	2912
* 6507	R (2, 3 ; 10) GR	←	(1, 2 ; 9) GR	E	169.664 77	0.2	7864
* 6508	P (1, 2 −; 18) GR	←	(0, 1 +; 19) GR	A	169.679 48	−1.1	4174
* 6509	P (2, 3 ; 5) GR	←	(1, 4 ; 6) GR	E	169.711 38	−1.3	1941
* 6510	P (2, 6 ; 10) GR	←	(1, 5 ; 11) GR	E	169.806 55	−1.0	1067
* 6511	P (3, 1 ; 14) GR	←	(2, 0 ; 15) GR	E	169.823 12	−0.1	4951
* 6512	P (1, −4 ; 15) GR	←	(0, −5 ; 16) GR	E	169.837 12	−0.7	3592
* 6513	P (1, 11 ; 21) GR	←	(0, 12 ; 22) GR	A	169.945 74	0.0	1747
* 6514	R (1, 5 ; 8) GR	←	(0, 6 ; 7) GR	A	169.968 11	−2.1	2038
* 6515	P (2, 4 ; 8) GR	←	(2, 3 ; 9) GR	E	169.998 06	1.5	4174
* 6516	R (2, −4 ; 21) GR	←	(1, −5 ; 20) GR	E	169.998 63	−3.3	1913
* 6517	P (1, −8 ; 11) GR	←	(0, −9 ; 12) GR	E	170.003 84	−0.2	2718
* 6518	P (1, 1 ; 14) GR	←	(0, 0 ; 15) GR	E	170.030 94	0.2	4951
* 6519	R (3, 4 ; 8) GR	←	(2, 5 ; 7) GR	E	170.157 91	0.5	1359
* 6520	P (2, 8 ; 12) GR	←	(1, 7 ; 13) GR	A	170.202 04	−1.3	5922
* 6521	P (1, 2 +; 15) GR	←	(0, 1 −; 16) GR	A	170.222 41	−0.1	5242
* 6522	P (1, 0 ; 14) GR	←	(0, 1 ; 15) GR	E	170.227 06	−0.6	6504
* 6523	R (2, −1 ; 6) GR	←	(1, 0 ; 5) GR	E	170.259 83	0.5	3592
* 6524	P (1, 3 −; 29) GR	←	(0, 4 +; 30) GR	A	170.313 05	2.5	1165
* 6525	R (2, 4 ; 23) GR	←	(1, 5 ; 22) GR	A	170.328 67	−0.1	2330
* 6526	R (1, 4 ; 8) GR	←	(0, 5 ; 7) GR	E	170.333 32	−0.4	2524
* 6527	R (2, −2 ; 6) GR	←	(1, −1 ; 5) GR	E	170.372 64	−1.1	7669
6528	P (3, 0 ; 15) GR	←	(2, 1 ; 16) GR	E	170.427 48	−1.6	4854
* 6529	P (2, −3 ; 10) GR	←	(2, −2 ; 11) GR	E	170.429 36	0.1	4271
* 6530	R (1, 7 ; 35) GR	←	(1, 6 ; 34) GR	A	170.474 78	0.8	2815
* 6531	P (1, 0 ; 21) GR	←	(0, −1 ; 22) GR	E	170.507 61	0.8	1456
* 6532	R (1, 11 ; 15) GR	←	(1, 10 ; 14) GR	A	170.541 76	0.8	7378
6533	R (1, −7 ; 20) GR	←	(0, −8 ; 19) GR	E	170.544 50	−6.6	2912
* 6534	R (2, 4 ; 12) GR	←	(1, 3 ; 11) GR	A	170.606 33	0.1	9029
* 6535	P (1, −2 ; 23) GR	←	(0, −3 ; 24) GR	E	170.618 97	−0.8	2815
* 6536	R (1, 6 ; 10) GR	←	(0, 7 ; 9) GR	A	170.646 33	−0.2	1359
* 6537	P (1, 7 ; 26) GR	←	(0, 8 ; 27) GR	A	170.736 76	−0.7	1262
* 6538	P (1, 1 +; 17) GR	←	(0, 2 −; 18) GR	A	170.789 24	−2.0	6310
* 6539	R (1, −3 ; 5) GR	←	(0, −4 ; 4) GR	E	170.889 95	0.3	1165
* 6540	P (1, 1 −; 17) GR	←	(0, 2 +; 18) GR	A	170.927 90	−0.3	6019
* 6541	R (3, −3 ; 10) GR	←	(2, −4 ; 9) GR	E	170.940 12	0.5	3495
* 6542	P (3, 1 +; 16) GR	←	(2, 2 ; 17) GR	A	170.966 18	0.9	4951
* 6543	P (3, 1 −; 16) GR	←	(2, 2 ; 17) GR	A	170.968 44	−0.3	4077
* 6544	Q (1, 2 +; 27) GR	←	(0, 3 +; 27) GR	A	171.039 76	1.4	3009
* 6545	P (1, 2 −; 17) GR	←	(0, 1 +; 18) GR	A	171.046 49	0.3	5048
* 6546	Q (1, 2 −; 26) GR	←	(0, 3 −; 26) GR	A	171.060 38	0.2	2912
* 6547	R (2, −5 ; 8) GR	←	(1, −4 ; 7) GR	E	171.095 50	−0.5	7572
* 6548	R (2, 2 ; 15) GR	←	(2, 1 ; 14) GR	E	171.157 57	0.7	7475
* 6549	P (1, 1 ; 9) GR	←	(0, 2 ; 10) GR	E	171.157 57	−1.0	7475
* 6550	Q (1, 2 +; 26) GR	←	(0, 3 +; 26) GR	A	171.193 03	−0.5	3592
* 6551	R (2, 3 ; 11) GR	←	(1, 2 ; 10) GR	E	171.213 57	−0.5	7864
* 6552	Q (1, 2 −; 25) GR	←	(0, 3 −; 25) GR	A	171.240 32	−1.2	3689
* 6553	P (2, 3 ; 4) GR	←	(1, 4 ; 5) GR	E	171.287 88	0.2	1941
* 6554	Q (1, 2 +; 25) GR	←	(0, 3 +; 25) GR	A	171.339 16	0.6	3786
* 6555	Q (1, 2 −; 24) GR	←	(0, 3 −; 24) GR	A	171.405 98	−0.5	4077
* 6556	P (3, 1 ; 13) GR	←	(2, 0 ; 14) GR	E	171.407 95	0.9	4660
* 6557	P (1, −4 ; 14) GR	←	(0, −5 ; 15) GR	E	171.457 27	0.3	4077
* 6558	R (2, −4 ; 22) GR	←	(1, −5 ; 21) GR	E	171.475 37	0.9	3398
* 6559	Q (1, 2 +; 24) GR	←	(0, 3 +; 24) GR	A	171.477 88	0.1	4368
* 6560	P (1, −3 ; 20) GR	←	(0, −2 ; 21) GR	E	171.493 02	0.9	2912
* 6561	R (1, 5 ; 9) GR	←	(0, 6 ; 8) GR	A	171.503 42	−0.9	2621
* 6562	P (1, 1 ; 13) GR	←	(0, 0 ; 14) GR	E	171.544 97	0.3	5242
* 6563	Q (1, 2 −; 23) GR	←	(0, 3 −; 23) GR	A	171.558 86	−0.1	4466
* 6564	P (2, 4 ; 7) GR	←	(2, 3 ; 8) GR	E	171.573 57	−0.7	3203
* 6565	P (1, 11 ; 20) GR	←	(0, 12 ; 21) GR	A	171.579 76	0.6	1262
* 6566	Q (1, 2 +; 23) GR	←	(0, 3 +; 23) GR	A	171.609 57	−0.2	4368
* 6567	P (1, −8 ; 10) GR	←	(0, −9 ; 11) GR	E	171.614 13	−0.7	3009
* 6568	Q (1, 2 −; 22) GR	←	(0, 3 −; 22) GR	A	171.699 61	0.2	4466
* 6569	R (3, 4 ; 9) GR	←	(2, 5 ; 8) GR	E	171.713 58	1.8	2038
* 6570	Q (1, 2 +; 22) GR	←	(0, 3 +; 22) GR	A	171.734 05	0.5	5048
* 6571	P (2, 8 ; 11) GR	←	(1, 7 ; 12) GR	A	171.791 02	0.1	3009
* 6572	R (2, −1 ; 7) GR	←	(1, 0 ; 6) GR	E	171.818 49	−0.1	3980
* 6573	Q (1, 2 −; 21) GR	←	(0, 3 −; 21) GR	A	171.829 25	0.3	4951
* 6574	Q (1, 2 +; 21) GR	←	(0, 3 +; 21) GR	A	171.851 42	1.1	5145
* 6575	R (1, 4 ; 9) GR	←	(0, 5 ; 8) GR	E	171.868 57	−1.2	2718
* 6576	P (1, 0 ; 13) GR	←	(0, 1 ; 14) GR	E	171.872 51	−0.3	6407
6577	R (2, 4 ; 24) GR	←	(1, 5 ; 23) GR	A	171.874 25	3.5	0
* 6578	R (2, −2 ; 7) GR	←	(1, −1 ; 6) GR	E	171.928 96	0.3	7572
* 6579	Q (1, 2 −; 20) GR	←	(0, 3 −; 20) GR	A	171.948 73	0.3	5339
* 6580	Q (1, 2 +; 20) GR	←	(0, 3 +; 20) GR	A	171.961 83	−0.5	5631
* 6581	R (1, −7 ; 21) GR	←	(0, −8 ; 20) GR	E	171.988 84	2.6	1747
* 6582	P (2, −3 ; 9) GR	←	(2, −2 ; 10) GR	E	172.007 77	0.6	6796
* 6583	P (1, 0 ; 20) GR	←	(0, −1 ; 21) GR	E	172.010 22	0.2	2135
* 6584	P (3, 0 ; 14) GR	←	(2, 1 ; 15) GR	E	172.013 70	−0.4	4660
6585	P (1, 3 −; 28) GR	←	(0, 4 +; 29) GR	A	172.020 79	−3.0	1456
* 6586	P (1, 2 +; 14) GR	←	(0, 1 −; 15) GR	A	172.048 93	0.3	5048
6587	P (1, 3 +; 28) GR	←	(0, 4 −; 29) GR	A	172.051 36	−3.4	1553
* 6588	Q (1, 2 −; 19) GR	←	(0, 3 −; 19) GR	A	172.058 77	0.4	5533
* 6589	Q (1, 2 +; 19) GR	←	(0, 3 +; 19) GR	A	172.065 37	−0.1	5728
* 6590	R (1, 11 ; 16) GR	←	(1, 10 ; 15) GR	A	172.099 64	−1.0	7378
* 6591	R (2, 4 ; 13) GR	←	(1, 3 ; 12) GR	A	172.149 50	0.5	8446
* 6592	Q (1, 2 −; 18) GR	←	(0, 3 −; 18) GR	A	172.159 93	−0.4	6504
* 6593	Q (1, 2 +; 18) GR	←	(0, 3 +; 18) GR	A	172.162 22	−0.6	6213
* 6594	R (1, 6 ; 11) GR	←	(0, 7 ; 10) GR	A	172.162 22	−0.8	6213
* 6595	Q (1, 2 +; 17) GR	←	(0, 3 +; 17) GR	A	172.252 75	1.8	8543
* 6596	Q (1, 2 −; 17) GR	←	(0, 3 −; 17) GR	A	172.252 75	−2.6	8543
* 6597	P (1, −2 ; 22) GR	←	(0, −3 ; 23) GR	E	172.330 69	0.0	3883
6598	R (1, 7 ; 36) GR	←	(1, 6 ; 35) GR	A	172.336 15	10.5	6796
* 6599	Q (1, 2 +; 16) GR	←	(0, 3 +; 16) GR	A	172.336 15	−2.2	6796
* 6600	Q (1, 2 −; 16) GR	←	(0, 3 −; 16) GR	A	172.338 55	0.1	6407



Index	upper state T (n, K ; J) ν	←	lower state (n, K ; J) ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 6601	P (1, 7 ; 25) GR	←	(0, 8 ; 26) GR	A	172.392 15	−0.4	1359
* 6602	Q (1, 2 $^+$; 15) GR	←	(0, 3 $^+$; 15) GR	A	172.413 89	0.1	6699
* 6603	Q (1, 2 $^-$; 15) GR	←	(0, 3 $^-$; 15) GR	A	172.416 89	0.1	6796
* 6604	P (1, 2 $^-$; 16) GR	←	(0, 1 $^+$; 17) GR	A	172.426 55	0.0	5533
* 6605	P (1, 1 $^+$; 16) GR	←	(0, 2 $^-$; 17) GR	A	172.434 89	−0.9	5728
* 6606	R (1, −3 ; 6) GR	←	(0, −4 ; 5) GR	E	172.439 00	−0.5	1941
* 6607	Q (1, 2 $^+$; 14) GR	←	(0, 3 $^+$; 14) GR	A	172.485 30	−0.8	6504
* 6608	Q (1, 2 $^-$; 14) GR	←	(0, 3 $^-$; 14) GR	A	172.488 68	0.1	6601
* 6609	R (3, −3 ; 11) GR	←	(2, −4 ; 10) GR	E	172.493 42	0.0	4271
* 6610	R (2, −6 ; 6) GR	←	(2, −5 ; 5) GR	E	172.525 43	−0.1	6893
* 6611	Q (1, 2 $^+$; 13) GR	←	(0, 3 $^+$; 13) GR	A	172.551 08	0.7	6699
* 6612	P (3, 1 $^+$; 15) GR	←	(2, 2 ; 16) GR	A	172.554 00	0.0	7087
* 6613	Q (1, 2 $^-$; 13) GR	←	(0, 3 $^-$; 13) GR	A	172.554 00	−1.5	7087
* 6614	P (3, 1 $^-$; 15) GR	←	(2, 2 ; 16) GR	A	172.556 19	0.5	4563
* 6615	P (1, 1 $^-$; 16) GR	←	(0, 2 $^+$; 17) GR	A	172.586 58	−0.5	5922
* 6616	Q (1, 2 $^+$; 12) GR	←	(0, 3 $^+$; 12) GR	A	172.611 01	0.0	7378
* 6617	Q (1, 2 $^-$; 12) GR	←	(0, 3 $^-$; 12) GR	A	172.613 66	−1.3	6990
* 6618	R (2, −5 ; 9) GR	←	(1, −4 ; 8) GR	E	172.645 79	0.2	7572
* 6619	Q (1, 2 $^+$; 11) GR	←	(0, 3 $^+$; 11) GR	A	172.665 34	−0.1	7184
* 6620	Q (1, 2 $^-$; 11) GR	←	(0, 3 $^-$; 11) GR	A	172.667 71	−1.1	6990
* 6621	R (2, 2 ; 16) GR	←	(2, 1 ; 15) GR	E	172.707 96	0.3	6019
* 6622	Q (1, 2 $^+$; 10) GR	←	(0, 3 ; 10) GR	A	172.714 50	1.9	6990
* 6623	Q (1, 2 $^+$; 10) GR	←	(0, 3 $^+$; 10) GR	A	172.714 50	−0.3	6990
* 6624	Q (1, 2 $^-$; 10) GR	←	(0, 3 $^-$; 10) GR	A	172.716 39	−0.4	6407
6625	Q (1, 2 $^-$; 10) GR	←	(0, 3 ; 10) GR	A	172.716 39	−6.1	6407
* 6626	Q (1, 2 $^+$; 9) GR	←	(0, 3 ; 9) GR	A	172.758 64	2.7	0
* 6627	Q (1, 2 $^+$; 9) GR	←	(0, 3 $^+$; 9) GR	A	172.758 39	−1.6	4984
* 6628	R (2, 3 ; 12) GR	←	(1, 2 ; 11) GR	E	172.759 44	−3.4	8446
* 6629	Q (1, 2 $^-$; 9) GR	←	(0, 3 $^-$; 9) GR	A	172.759 55	−3.1	0
6630	Q (1, 2 $^-$; 9) GR	←	(0, 3 ; 9) GR	A	172.759 44	−7.2	8446
* 6631	P (1, 1 ; 8) GR	←	(0, 2 ; 9) GR	E	172.783 40	−0.4	6116
* 6632	Q (1, 2 ; 8) GR	←	(0, 3 ; 8) GR	A	172.798 09	−1.4	9029
* 6633	Q (1, 2 ; 7) GR	←	(0, 3 ; 7) GR	A	172.832 18	−0.9	8737
* 6634	Q (1, 2 ; 6) GR	←	(0, 3 ; 6) GR	A	172.861 80	0.7	7961
* 6635	P (2, 3 ; 3) GR	←	(1, 4 ; 4) GR	E	172.863 27	1.0	1201
* 6636	Q (1, 2 ; 5) GR	←	(0, 3 ; 5) GR	A	172.886 85	−0.5	7281
* 6637	Q (1, 2 ; 4) GR	←	(0, 3 ; 4) GR	A	172.907 51	0.1	6699
* 6638	Q (1, 2 ; 3) GR	←	(0, 3 ; 3) GR	A	172.924 03	0.6	5436
* 6639	R (2, −4 ; 23) GR	←	(1, −5 ; 22) GR	E	172.943 14	−0.1	2815
* 6640	P (3, 1 ; 12) GR	←	(2, 0 ; 13) GR	E	172.991 49	−0.1	4854
* 6641	R (1, 5 ; 10) GR	←	(0, 6 ; 9) GR	A	173.034 10	−0.2	3106
* 6642	P (1, 1 ; 12) GR	←	(0, 0 ; 13) GR	E	173.074 88	2.0	6504
6643	P (1, −4 ; 13) GR	←	(0, −5 ; 14) GR	E	173.074 88	−7.1	6504
* 6644	P (2, 4 ; 6) GR	←	(2, 3 ; 7) GR	E	173.148 75	0.1	2815
* 6645	P (1, 11 ; 19) GR	←	(0, 12 ; 20) GR	A	173.211 08	0.2	1456
* 6646	P (1, −8 ; 9) GR	←	(0, −9 ; 10) GR	E	173.221 46	−0.5	3009
* 6647	R (3, 4 ; 10) GR	←	(2, 5 ; 9) GR	E	173.267 58	0.0	2038
* 6648	P (1, −3 ; 19) GR	←	(0, −2 ; 20) GR	E	173.327 94	−0.4	3398
* 6649	R (2, −1 ; 8) GR	←	(1, 0 ; 7) GR	E	173.375 82	−0.1	3883
* 6650	P (2, 8 ; 10) GR	←	(1, 7 ; 11) GR	A	173.378 17	−0.4	2621
* 6651	R (1, 4 ; 10) GR	←	(0, 5 ; 9) GR	E	173.399 15	−1.5	3106
* 6652	R (2, 4 ; 25) GR	←	(1, 5 ; 24) GR	A	173.419 65	3.3	1747
* 6653	R (1, −7 ; 22) GR	←	(0, −8 ; 21) GR	E	173.421 06	−0.5	1456
* 6654	R (2, −2 ; 8) GR	←	(1, −1 ; 7) GR	E	173.482 90	0.6	7669
* 6655	Q (1, 5 ; 17) GR	←	(0, 6 ; 17) GR	E	173.488 45	0.8	5436
* 6656	Q (1, 5 ; 18) GR	←	(0, 6 ; 18) GR	E	173.488 45	−0.2	5436
* 6657	Q (1, 5 ; 16) GR	←	(0, 6 ; 16) GR	E	173.495 18	2.0	6019
6658	Q (1, 5 ; 19) GR	←	(0, 6 ; 19) GR	E	173.495 18	−5.8	6019
* 6659	Q (1, 5 ; 15) GR	←	(0, 6 ; 15) GR	E	173.506 87	−0.6	4951
* 6660	Q (1, 5 ; 20) GR	←	(0, 6 ; 20) GR	E	173.511 41	1.6	7475
* 6661	P (1, 0 ; 12) GR	←	(0, 1 ; 13) GR	E	173.511 41	−0.2	7475
* 6662	Q (1, 5 ; 14) GR	←	(0, 6 ; 14) GR	E	173.523 75	−0.1	4174
* 6663	P (1, 0 ; 19) GR	←	(0, −1 ; 20) GR	E	173.526 50	−0.7	2427
* 6664	Q (1, 5 ; 21) GR	←	(0, 6 ; 21) GR	E	173.535 30	−0.5	2621
* 6665	Q (1, 5 ; 13) GR	←	(0, 6 ; 13) GR	E	173.544 50	−0.4	4077
* 6666	Q (1, 5 ; 12) GR	←	(0, 6 ; 12) GR	E	173.568 27	1.6	5436
6667	Q (1, 5 ; 22) GR	←	(0, 6 ; 22) GR	E	173.568 27	−4.3	5436
* 6668	P (2, −3 ; 8) GR	←	(2, −2 ; 9) GR	E	173.585 32	0.9	4174
* 6669	Q (1, 5 ; 11) GR	←	(0, 6 ; 11) GR	E	173.593 72	0.4	4174
* 6670	P (3, 0 ; 13) GR	←	(2, 1 ; 14) GR	E	173.598 71	−0.6	4466
* 6671	Q (1, 5 ; 23) GR	←	(0, 6 ; 23) GR	E	173.611 64	−0.8	2330
6672	Q (1, 5 ; 10) GR	←	(0, 6 ; 10) GR	E	173.619 76	−7.0	7378
* 6673	Q (1, 5 ; 9) GR	←	(0, 6 ; 9) GR	E	173.647 64	1.1	4271
* 6674	R (1, 11 ; 17) GR	←	(1, 10 ; 16) GR	A	173.655 86	0.9	7281
* 6675	Q (1, 5 ; 24) GR	←	(0, 6 ; 24) GR	E	173.664 90	0.1	1844
* 6676	R (1, 6 ; 12) GR	←	(0, 7 ; 11) GR	A	173.669 46	0.2	1844
* 6677	Q (1, 5 ; 8) GR	←	(0, 6 ; 8) GR	E	173.674 15	−0.8	3592
* 6678	R (2, 4 ; 14) GR	←	(1, 3 ; 13) GR	A	173.689 53	0.0	8640
* 6679	Q (1, 5 ; 7) GR	←	(0, 6 ; 7) GR	E	173.699 62	−1.0	2912
6680	P (1, 3 $^-$; 27) GR	←	(0, 4 $^+$; 28) GR	A	173.723 07	5.9	2233
6681	Q (1, 5 ; 6) GR	←	(0, 6 ; 6) GR	E	173.723 07	−4.0	2233
* 6682	Q (1, 5 ; 25) GR	←	(0, 6 ; 25) GR	E	173.728 27	−0.5	1941
* 6683	P (1, 3 $^+$; 27) GR	←	(0, 4 $^-$; 28) GR	A	173.745 43	−2.5	1359
* 6684	Q (1, 5 ; 26) GR	←	(0, 6 ; 26) GR	E	173.802 08	−0.8	1553
* 6685	P (1, 2 $^-$; 15) GR	←	(0, 1 $^+$; 16) GR	A	173.819 41	0.0	5048
* 6686	P (1, 2 $^+$; 13) GR	←	(0, 1 $^-$; 14) GR	A	173.862 05	−0.3	5339
* 6687	Q (1, 5 ; 27) GR	←	(0, 6 ; 27) GR	E	173.886 35	−0.3	1456
* 6688	Q (1, 5 ; 28) GR	←	(0, 6 ; 28) GR	E	173.981 32	0.5	1359
* 6689	R (1, −3 ; 7) GR	←	(0, −4 ; 6) GR	E	173.983 58	−1.2	2330
* 6690	P (1, −2 ; 21) GR	←	(0, −3 ; 22) GR	E	174.032 67	−0.3	3786
* 6691	P (1, 7 ; 24) GR	←	(0, 8 ; 25) GR	A	174.045 22	1.1	4660
* 6692	R (3, −3 ; 12) GR	←	(2, −4 ; 11) GR	E	174.045 22	−1.0	4660
* 6693	P (1, 1 $^+$; 15) GR	←	(0, 2 $^-$; 16) GR	A	174.078 43	0.6	6310
* 6694	Q (1, 5 ; 29) GR	←	(0, 6 ; 29) GR	E	174.086 30	0.4	1456
* 6695	R (2, −6 ; 7) GR	←	(2, −5 ; 6) GR	E	174.090 72	0.2	6990
* 6696	P (3, 1 $^+$; 14) GR	←	(2, 2 ; 15) GR	A	174.140 75	0.2	4466
* 6697	P (3, 1 $^-$; 14) GR	←	(2, 2 ; 15) GR	A	174.142 55	−0.7	3980
* 6698	R (2, −5 ; 10) GR	←	(1, −4 ; 9) GR	E	174.193 14	−1.0	7572
* 6699	Q (1, 5 ; 30) GR	←	(0, 6 ; 30) GR	E	174.201 20	−0.4	873
* 6700	R (1, 7 ; 37) GR	←	(1, 6 ; 36) GR	A	174.209 09	0.4	1844
* 6701	P (1, 1 $^-$; 15) GR	←	(0, 2 $^+$; 16) GR	A	174.236 44	−0.5	6019
* 6702	R (2, 2 ; 17) GR	←	(2, 1 ; 16) GR	E	174.256 81	0.0	5533
* 6703	R (2, 3 ; 13) GR	←	(1, 2 ; 12) GR	E	174.303 59	−0.6	7864
* 6704	P (1, 1 ; 7) GR	←	(0, 2 ; 8) GR	E	174.401 41	0.5	6990
* 6705	R (2, −4 ; 24) GR	←	(1, −5 ; 23) GR	E	174.401 41	−2.5	6990
* 6706	R (1, 5 ; 11) GR	←	(0, 6 ; 10) GR	A	174.559 99	−1.1	3495
* 6707	P (3, 1 ; 11) GR	←	(2, 0 ; 12) GR	E	174.574 18	−0.7	5436
* 6708	P (1, 1 ; 11) GR	←	(0, 0 ; 12) GR	E	174.618 03	0.1	5631
* 6709	P (1, −4 ; 12) GR	←	(0, −5 ; 13) GR	E	174.691 81	−0.3	3980
* 6710	P (1, 4 ; 26) GR	←	(0, 3 ; 27) GR	E	174.698 45	−0.7	1359
* 6711	P (2, 4 ; 5) GR	←	(2, 3 ; 6) GR	E	174.722 63	−2.4	2427
* 6712	R (3, 4 ; 11) GR	←	(2, 5 ; 10) GR	E	174.820 04	−0.1	2621
* 6713	P (1, −8 ; 8) GR	←	(0, −9 ; 9) GR	E	174.825 77	−0.1	3203
* 6714	P (1, 11 ; 18) GR	←	(0, 12 ; 19) GR	A	174.839 77	−0.3	2038
* 6715	R (1, −7 ; 23) GR	←	(0, −8 ; 22) GR	E	174.842 49	0.2	1262
* 6716	R (1, 4 ; 11) GR	←	(0, 5 ; 10) GR	E	174.925 09	−0.4	3203
* 6717	R (2, −1 ; 9) GR	←	(1, 0 ; 8) GR	E	174.931 50	1.0	4368
6718	P (2, 8 ; 9) GR	←	(1, 7 ; 10) GR	A	174.964 36	4.4	4951
* 6719	Q (2, 5 ; 19) GR	←	(1, 6 ; 19) GR	E	174.964 36	3.0	4951
6720	Q (2, 5 ; 18) GR	←	(1, 6 ; 18) GR	E	174.964 36	−4.6	4951
* 6721	Q (2, 5 ; 20) GR	←	(1, 6 ; 20) GR	E	174.967 99	−0.4	2718
* 6722	Q (2, 5 ; 17) GR	←	(1, 6 ; 17) GR	E	174.970 14	0.3	2815
* 6723	Q (2, 5 ; 21) GR	←	(1, 6 ; 21) GR	E	174.977 17	−1.5	2427
* 6724	Q (2, 5 ; 16) GR	←	(1, 6 ; 16) GR	E	174.979 17	0.6	3300
* 6725	Q (2, 5 ; 15) GR	←	(1, 6 ; 15) GR	E	174.991 76	0.7	4368
* 6726	Q (2, 5 ; 22) GR	←	(1, 6 ; 22) GR	E	174.991 76	−1.7	4368
* 6727	Q (2, 5 ; 14) GR	←	(1, 6 ; 14) GR	E	175.006 88	−0.1	3106
* 6728	Q (2, 5 ; 23) GR	←	(1, 6 ; 23) GR	E	175.012 45	−0.4	1941
* 6729	Q (2, 5 ; 13) GR	←	(1, 6 ; 13) GR	E	175.024 44	0.8	3203
* 6730	R (2, −2 ; 9) GR	←	(1, −1 ; 8) GR	E	175.034 41	−0.9	7669
* 6731	Q (2, 5 ; 24) GR	←	(1, 6 ; 24) GR	E	175.038 69	0.1	2135
* 6732	Q (2, 5 ; 12) GR	←	(1, 6 ; 12) GR	E	175.043 53	−0.4	3009
* 6733	P (1, 0 ; 18) GR	←	(0, −1 ; 19) GR	E	175.055 75	0.2	2330
* 6734	Q (2, 5 ; 11) GR	←	(1, 6 ; 11) GR	E	175.063 71	1.0	3106
* 6735	Q (2, 5 ; 25) GR	←	(1, 6 ; 25) GR	E	175.070 63	−0.6	1165
* 6736	Q (2, 5 ; 10) GR	←	(1, 6 ; 10) GR	E	175.084 32	1.2	2718
* 6737	Q (2, 5 ; 9) GR	←	(1, 6 ; 9) GR	E	175.104 66	0.5	2912
* 6738	Q (2, 5 ; 26) GR	←	(1, 6 ; 26) GR	E	175.108 80	0.0	1941
* 6739	Q (2, 5 ; 8) GR	←	(1, 6 ; 8) GR	E	175.124 61	1.0	2621
* 6740	P (1, −3 ; 18) GR	←	(0, −2 ; 19) GR	E	175.134 63	−1.3	3689
* 6741	Q (2, 5 ; 7) GR	←	(1, 6 ; 7) GR	E	175.143 18	−0.3	2522
* 6742	P (1, 0 ; 11) GR	←	(0, 1 ; 12) GR	E	175.144 19	−0.7	6893
* 6743	Q (2, 5 ; 27) GR	←	(1, 6 ; 27) GR	E	175.152 73	−1.3	1747
* 6744	Q (2, 5 ; 6) GR	←	(1, 6 ; 6) GR	E	175.160 33	−2.1	1938
* 6745	P (2, −3 ; 7) GR	←	(2, −2 ; 8) GR	E	175.162 06	−0.1	4271
* 6746	R (1, 6 ; 13) GR	←	(0, 7 ; 12) GR	A	175.166 54	0.0	3106
* 6747	P (3, 0 ; 12) GR	←	(2, 1 ; 13) GR	E	175.182 81	−0.3	5048
* 6748	Q (2, 5 ; 28) GR	←	(1, 6 ; 28) GR	E	175.202 85	1.1	970
* 6749	R (1, 11 ; 18) GR	←	(1, 10 ; 17) GR	A	175.210 09	1.1	6796
* 6750	P (1, 2 $^-$; 14) GR	←	(0, 1 $^+$; 15) GR	A	175.224 72	0.1	5728

cm 1 2 3 4 5 6 7 8 unesp 12 13 14 15 16 17 18 19

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 6751	R (2, 4 ; 15) GR	←	(1, 3 ; 14) GR	A	175.226 69	1.0	8737
6752	Q (2, 5 ; 29) GR	←	(1, 6 ; 29) GR	E	175.258 33	−4.9	6504
* 6753	Q (2, 5 ; 30) GR	←	(1, 6 ; 30) GR	E	175.320 54	−1.1	970
* 6754	P (1, 3 $^-$; 26) GR	←	(0, 4 $^+$; 27) GR	A	175.417 66	0.4	1553
* 6755	P (1, 3 $^+$; 26) GR	←	(0, 4 $^-$; 27) GR	A	175.434 83	1.0	1359
* 6756	R (1, −3 ; 8) GR	←	(0, −4 ; 7) GR	E	175.523 68	0.3	3203
* 6757	R (3, −3 ; 13) GR	←	(2, −4 ; 12) GR	E	175.595 58	0.2	4077
* 6758	R (2, −6 ; 8) GR	←	(2, −5 ; 7) GR	E	175.655 30	0.0	6990
* 6759	P (1, 2 $^+$; 12) GR	←	(0, 1 $^-$; 13) GR	A	175.661 40	0.0	5145
* 6760	P (1, 7 ; 23) GR	←	(0, 8 ; 24) GR	A	175.695 50	1.6	2135
* 6761	P (1, 1 $^+$; 14) GR	←	(0, 2 $^-$; 15) GR	A	175.719 72	0.3	6601
* 6762	P (1, −2 ; 20) GR	←	(0, −3 ; 21) GR	E	175.726 01	2.4	6407
* 6763	P (3, 1 $^+$; 13) GR	←	(2, 2 ; 14) GR	A	175.726 01	−2.8	6407
* 6764	P (3, 1 $^-$; 13) GR	←	(2, 2 ; 14) GR	A	175.727 89	−0.2	4466
* 6765	R (2, −5 ; 11) GR	←	(1, −4 ; 10) GR	E	175.737 52	0.3	7572
* 6766	R (2, 2 ; 18) GR	←	(2, 1 ; 17) GR	E	175.804 07	0.8	6019
* 6767	R (2, 3 ; 14) GR	←	(1, 2 ; 13) GR	E	175.844 55	0.5	7864
* 6768	R (2, −4 ; 25) GR	←	(1, −5 ; 24) GR	E	175.850 88	0.1	2135
* 6769	P (1, 1 $^-$; 14) GR	←	(0, 2 $^+$; 15) GR	A	175.878 09	0.4	6601
* 6770	P (1, 1 ; 6) GR	←	(0, 2 ; 7) GR	E	176.011 82	−1.8	6019
* 6771	R (1, 5 ; 12) GR	←	(0, 6 ; 11) GR	A	176.081 20	−0.8	4077
* 6772	R (1, 7 ; 38) GR	←	(1, 6 ; 37) GR	A	176.096 38	−0.1	1650
* 6773	P (1, 3 ; 27) GR	←	(0, 4 ; 28) GR	E	176.134 96	−1.1	1067
* 6774	P (3, 1 ; 10) GR	←	(2, 0 ; 11) GR	E	176.155 75	−1.2	4951
* 6775	P (1, 1 ; 10) GR	←	(0, 0 ; 11) GR	E	176.173 43	0.2	5631
* 6776	R (1, −7 ; 24) GR	←	(0, −8 ; 23) GR	E	176.252 26	0.5	1165
6777	P (2, 4 ; 4) GR	←	(2, 3 ; 5) GR	E	176.297 34	5.4	3689
* 6778	P (1, −4 ; 11) GR	←	(0, −5 ; 12) GR	E	176.305 77	−0.2	4368
* 6779	R (3, 4 ; 12) GR	←	(2, 5 ; 11) GR	E	176.371 04	0.8	2815
* 6780	P (2, 0 ; 28) GR	←	(1, −1 ; 29) GR	E	176.446 17	−0.7	3786
* 6781	R (1, 4 ; 12) GR	←	(0, 5 ; 11) GR	E	176.446 17	−0.8	3786
* 6782	P (1, 11 ; 17) GR	←	(0, 12 ; 18) GR	A	176.465 97	−0.3	1747
* 6783	R (2, −1 ; 10) GR	←	(1, 0 ; 9) GR	E	176.485 99	1.7	4368
* 6784	P (1, 4 ; 25) GR	←	(0, 3 ; 26) GR	E	176.511 22	2.2	2330
* 6785	P (2, 8 ; 8) GR	←	(1, 7 ; 9) GR	A	176.547 92	−1.4	1067
* 6786	R (2, −2 ; 10) GR	←	(1, −1 ; 9) GR	E	176.583 45	−0.2	7669
* 6787	P (1, 0 ; 17) GR	←	(0, −1 ; 18) GR	E	176.596 54	−0.2	2718
* 6788	P (1, 2 $^-$; 13) GR	←	(0, 1 $^+$; 14) GR	A	176.642 28	−0.7	5339
* 6789	R (1, 6 ; 14) GR	←	(0, 7 ; 13) GR	A	176.652 95	−1.4	2427
* 6790	P (2, −3 ; 6) GR	←	(2, −2 ; 7) GR	E	176.737 90	−0.8	3980
* 6791	R (2, 4 ; 16) GR	←	(1, 3 ; 15) GR	A	176.760 50	0.3	8446
* 6792	R (1, 11 ; 19) GR	←	(1, 10 ; 18) GR	A	176.761 94	−0.2	0
* 6793	P (3, 0 ; 11) GR	←	(2, 1 ; 12) GR	E	176.765 76	−0.5	5533
* 6794	P (1, 0 ; 10) GR	←	(0, 1 ; 11) GR	E	176.771 14	−0.4	6699
* 6795	P (1, −3 ; 17) GR	←	(0, −2 ; 18) GR	E	176.914 43	0.0	3786
* 6796	R (1, −3 ; 9) GR	←	(0, −4 ; 8) GR	E	177.059 12	0.5	3398
* 6797	P (1, 3 $^-$; 25) GR	←	(0, 4 $^+$; 26) GR	A	177.106 43	−0.9	1844
* 6798	P (1, 3 $^+$; 25) GR	←	(0, 4 $^-$; 26) GR	A	177.119 18	−0.4	1941
* 6799	R (3, −3 ; 14) GR	←	(2, −4 ; 13) GR	E	177.144 09	0.2	4271
* 6800	R (2, −6 ; 9) GR	←	(2, −5 ; 8) GR	E	177.219 23	0.1	7281
* 6801	R (2, −5 ; 12) GR	←	(1, −4 ; 11) GR	E	177.278 51	−0.3	7572
* 6802	R (2, −4 ; 26) GR	←	(1, −5 ; 25) GR	E	177.289 99	0.9	2038
* 6803	P (3, 1 $^+$; 12) GR	←	(2, 2 ; 13) GR	A	177.310 98	−0.7	3766
* 6804	P (3, 1 $^-$; 12) GR	←	(2, 2 ; 13) GR	A	177.312 22	−1.6	3687
* 6805	P (1, 7 ; 22) GR	←	(0, 8 ; 23) GR	A	177.343 38	2.7	2330
* 6806	R (2, 2 ; 19) GR	←	(2, 1 ; 18) GR	E	177.349 79	0.6	5339
* 6807	P (1, 1 $^+$; 13) GR	←	(0, 2 $^-$; 14) GR	A	177.358 47	0.2	6213
* 6808	R (2, 3 ; 15) GR	←	(1, 2 ; 14) GR	E	177.382 48	−0.6	7766
* 6809	Q (2, 5 ; 37) GR	←	(2, 4 ; 37) GR	A	177.396 59	0.0	1553
* 6810	P (1, −2 ; 19) GR	←	(0, −3 ; 20) GR	E	177.410 02	0.1	4854
* 6811	Q (2, 5 ; 36) GR	←	(2, 4 ; 36) GR	A	177.430 96	0.0	1941
* 6812	R (1, −6 ; 10) GR	←	(0, −7 ; 9) GR	E	177.433 65	−0.4	1067
* 6813	P (1, 2 $^+$; 11) GR	←	(0, 1 $^-$; 12) GR	A	177.446 21	0.8	5631
* 6814	Q (2, 5 ; 35) GR	←	(2, 4 ; 35) GR	A	177.463 92	2.6	2330
* 6815	P (1, 5 ; 34) GR	←	(0, 4 ; 35) GR	E	177.486 03	−0.9	1165
* 6816	Q (2, 5 ; 34) GR	←	(2, 4 ; 34) GR	A	177.495 75	−0.4	3203
* 6817	P (1, 1 $^-$; 13) GR	←	(0, 2 $^+$; 14) GR	A	177.512 20	−0.1	6504
* 6818	Q (2, 5 ; 33) GR	←	(2, 4 ; 33) GR	A	177.526 41	0.9	3980
* 6819	Q (2, 5 ; 32) GR	←	(2, 4 ; 32) GR	A	177.555 91	0.3	4563
* 6820	Q (2, 5 ; 31) GR	←	(2, 4 ; 31) GR	A	177.584 34	0.0	4466
* 6821	R (1, 5 ; 13) GR	←	(0, 6 ; 12) GR	A	177.597 73	−0.7	4271
* 6822	Q (2, 5 ; 30) GR	←	(2, 4 ; 30) GR	A	177.611 67	0.8	4854
* 6823	P (1, 1 ; 5) GR	←	(0, 2 ; 6) GR	E	177.616 06	−0.1	5922
* 6824	Q (2, 5 ; 29) GR	←	(2, 4 ; 29) GR	A	177.637 84	−0.6	5048
6825	R (1, −7 ; 25) GR	←	(0, −8 ; 24) GR	E	177.649 24	−3.6	1456

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 6826	Q (2, 5 ; 28) GR	←	(2, 4 ; 28) GR	A	177.663 01	0.0	5339
* 6827	Q (2, 5 ; 27) GR	←	(2, 4 ; 27) GR	A	177.687 09	−0.1	6213
* 6828	Q (2, 5 ; 26) GR	←	(2, 4 ; 26) GR	A	177.710 24	0.6	6601
* 6829	Q (2, 5 ; 25) GR	←	(2, 4 ; 25) GR	A	177.732 36	−0.5	6893
* 6830	P (3, 1 ; 9) GR	←	(2, 0 ; 10) GR	E	177.736 43	0.1	5631
* 6831	P (1, 1 ; 9) GR	←	(0, 0 ; 10) GR	E	177.738 92	−0.3	6504
* 6832	Q (2, 5 ; 24) GR	←	(2, 4 ; 24) GR	A	177.753 39	−0.2	6699
* 6833	Q (2, 5 ; 23) GR	←	(2, 4 ; 23) GR	A	177.773 57	1.3	7378
* 6834	Q (2, 5 ; 22) GR	←	(2, 4 ; 22) GR	A	177.792 72	−0.3	7184
* 6835	Q (2, 5 ; 21) GR	←	(2, 4 ; 21) GR	A	177.810 91	−1.1	7475
* 6836	Q (2, 5 ; 20) GR	←	(2, 4 ; 20) GR	A	177.828 31	0.6	7572
* 6837	Q (2, 5 ; 19) GR	←	(2, 4 ; 19) GR	A	177.844 64	0.6	7766
* 6838	Q (2, 5 ; 18) GR	←	(2, 4 ; 18) GR	A	177.860 18	−0.8	8155
* 6839	Q (2, 5 ; 17) GR	←	(2, 4 ; 17) GR	A	177.874 87	1.1	8058
* 6840	Q (2, 5 ; 16) GR	←	(2, 4 ; 16) GR	A	177.888 53	0.5	8058
* 6841	Q (2, 5 ; 15) GR	←	(2, 4 ; 15) GR	A	177.901 45	−0.1	8349
* 6842	Q (2, 5 ; 14) GR	←	(2, 4 ; 14) GR	A	177.913 39	−0.6	8155
* 6843	P (1, −4 ; 10) GR	←	(0, −5 ; 11) GR	E	177.917 31	−0.5	4951
* 6844	R (3, 4 ; 13) GR	←	(2, 5 ; 12) GR	E	177.920 25	−0.6	2912
* 6845	Q (2, 5 ; 13) GR	←	(2, 4 ; 13) GR	A	177.924 63	−0.2	8058
* 6846	Q (2, 5 ; 12) GR	←	(2, 4 ; 12) GR	A	177.934 92	−0.6	8252
* 6847	Q (2, 5 ; 11) GR	←	(2, 4 ; 11) GR	A	177.944 45	−0.5	8252
* 6848	Q (2, 5 ; 10) GR	←	(2, 4 ; 10) GR	A	177.953 15	0.1	8058
* 6849	Q (2, 5 ; 9) GR	←	(2, 4 ; 9) GR	A	177.961 31	1.5	8252
6850	R (1, 4 ; 13) GR	←	(0, 5 ; 12) GR	E	177.961 31	−9.1	8252
* 6851	Q (2, 5 ; 8) GR	←	(2, 4 ; 8) GR	A	177.968 11	0.0	7864
* 6852	Q (2, 5 ; 7) GR	←	(2, 4 ; 7) GR	A	177.974 36	−0.1	7864
* 6853	Q (2, 5 ; 6) GR	←	(2, 4 ; 6) GR	A	177.979 93	0.8	7184
* 6854	Q (2, 5 ; 5) GR	←	(2, 4 ; 5) GR	A	177.984 51	−0.4	0
* 6855	P (1, 3 ; 26) GR	←	(0, 4 ; 27) GR	E	178.013 60	0.2	1165
* 6856	R (2, −1 ; 11) GR	←	(1, 0 ; 10) GR	E	178.038 64	−0.7	4466
* 6857	P (1, 2 $^-$; 12) GR	←	(0, 1 $^+$; 13) GR	A	178.071 80	−0.1	5339
* 6858	P (2, 0 ; 27) GR	←	(1, −1 ; 28) GR	E	178.087 91	−1.9	1018
* 6859	P (1, 11 ; 16) GR	←	(0, 12 ; 17) GR	A	178.089 40	−2.2	2038
* 6860	R (1, 6 ; 15) GR	←	(0, 7 ; 14) GR	A	178.127 73	−1.1	3106
* 6861	R (2, −2 ; 11) GR	←	(1, −1 ; 10) GR	E	178.129 92	1.0	7572
* 6862	P (1, 0 ; 16) GR	←	(0, −1 ; 17) GR	E	178.147 82	−0.1	3203
* 6863	R (2, 4 ; 17) GR	←	(1, 3 ; 16) GR	A	178.290 96	−0.3	8640
* 6864	P (1, 4 ; 24) GR	←	(0, 3 ; 25) GR	E	178.305 45	−3.1	1747
* 6865	R (1, 11 ; 20) GR	←	(1, 10 ; 19) GR	A	178.311 61	0.2	6504
* 6866	P (2, −3 ; 5) GR	←	(2, −2 ; 6) GR	E	178.312 90	−0.1	2483
6867	P (2, −6 ; 27) GR	←	(1, −5 ; 28) GR	E	178.334 17	−6.0	1067
* 6868	P (3, 0 ; 10) GR	←	(2, 1 ; 11) GR	E	178.347 83	0.0	4660
* 6869	P (1, 0 ; 9) GR	←	(0, 1 ; 10) GR	E	178.392 37	−0.4	6796
* 6870	R (1, −3 ; 10) GR	←	(0, −4 ; 9) GR	E	178.589 78	0.5	3786
* 6871	P (1, −3 ; 16) GR	←	(0, −2 ; 17) GR	E	178.669 25	−0.8	3980
* 6872	R (3, −3 ; 15) GR	←	(2, −4 ; 14) GR	E	178.690 90	1.2	4271
6873	R (2, −4 ; 27) GR	←	(1, −5 ; 26) GR	E	178.719 11	4.8	5242
* 6874	R (2, −6 ; 10) GR	←	(2, −5 ; 9) GR	E	178.782 44	−0.2	6990
* 6875	P (1, 3 $^-$; 24) GR	←	(0, 4 $^+$; 25) GR	A	178.789 54	−1.4	1844
* 6876	P (1, 3 $^+$; 24) GR	←	(0, 4 $^-$; 25) GR	A	178.798 57	−2.9	2233
* 6877	R (2, −5 ; 13) GR	←	(1, −4 ; 12) GR	E	178.815 98	−0.4	7572
* 6878	Q (2, 3 ; 29) GR	←	(1, 4 ; 29) GR	E	178.862 44	0.6	1747
* 6879	Q (2, 3 ; 28) GR	←	(1, 4 ; 28) GR	E	178.862 44	−1.5	1747
* 6880	Q (2, 3 ; 30) GR	←	(1, 4 ; 30) GR	E	178.865 03	1.7	1359
* 6881	Q (2, 3 ; 27) GR	←	(1, 4 ; 27) GR	E	178.865 03	−2.2	1359
* 6882	Q (2, 3 ; 31) GR	←	(1, 4 ; 31) GR	E	178.870 63	1.1	1553
* 6883	Q (2, 3 ; 26) GR	←	(1, 4 ; 26) GR	E	178.870 63	0.9	1553
* 6884	Q (2, 3 ; 32) GR	←	(1, 4 ; 32) GR	E	178.876 30	−1.1	7378
6885	Q (2, 3 ; 25) GR	←	(1, 4 ; 25) GR	E	178.876 30	−10.9	7378
* 6886	Q (2, 3 ; 24) GR	←	(1, 4 ; 24) GR	E	178.886 32	−0.8	1456
* 6887	R (2, 2 ; 20) GR	←	(2, 1 ; 19) GR	E	178.893 79	0.4	6443
* 6888	P (3, 1 ; 11) GR	←	(2, 2 ; 12) GR	A	178.895 59	−0.2	4965
6889	Q (2, 3 ; 23) GR	←	(1, 4 ; 23) GR	E	178.895 59	−10.0	4965
* 6890	Q (2, 3 ; 22) GR	←	(1, 4 ; 22) GR	E	178.908 30	0.1	1650
* 6891	P (1, 5 ; 33) GR	←	(0, 4 ; 34) GR	E	178.910 94	−0.7	1553
* 6892	R (2, 3 ; 16) GR	←	(1, 2 ; 15) GR	E	178.917 31	0.8	7766
* 6893	Q (2, 3 ; 21) GR	←	(1, 4 ; 21) GR	E	178.921 09	−0.2	2038
* 6894	Q (2, 3 ; 20) GR	←	(1, 4 ; 20) GR	E	178.934 49	−1.5	2524
* 6895	Q (2, 3 ; 19) GR	←	(1, 4 ; 19) GR	E	178.949 08	0.5	2135
* 6896	R (1, −6 ; 11) GR	←	(0, −7 ; 10) GR	E	178.958 57	−0.1	1262
* 6897	Q (2, 3 ; 18) GR	←	(1, 4 ; 18) GR	E	178.963 82	0.6	2135
* 6898	Q (2, 3 ; 17) GR	←	(1, 4 ; 17) GR	E	178.978 91	0.0	2330
* 6899	P (1, 7 ; 21) GR	←	(0, 8 ; 22) GR	A	178.988 10	1.2	2718
* 6900	Q (2, 3 ; 16) GR	←	(1, 4 ; 16) GR	E	178.994 16	−0.8	5919



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 6901	P (1, 1 +; 12) GR	←	(0, 2 −; 13) GR	A	178.994 35	−0.2	0
* 6902	Q (2, 3 ; 15) GR	←	(1, 4 ; 15) GR	E	179.009 63	0.0	2621
* 6903	Q (2, 3 ; 14) GR	←	(1, 4 ; 14) GR	E	179.024 60	−1.1	2330
* 6904	R (1, −7 ; 26) GR	←	(0, −8 ; 25) GR	E	179.034 01	−0.7	1067
* 6905	Q (2, 3 ; 13) GR	←	(1, 4 ; 13) GR	E	179.039 58	0.2	2621
* 6906	Q (2, 3 ; 12) GR	←	(1, 4 ; 12) GR	E	179.053 65	−0.1	2815
* 6907	Q (2, 3 ; 11) GR	←	(1, 4 ; 11) GR	E	179.067 61	0.2	2330
6908	Q (2, 3 ; 10) GR	←	(1, 4 ; 10) GR	E	179.080 13	−4.2	1312
* 6909	P (1, −2 ; 18) GR	←	(0, −3 ; 19) GR	E	179.086 32	0.9	4854
* 6910	Q (2, 3 ; 9) GR	←	(1, 4 ; 9) GR	E	179.092 70	0.4	2233
6911	Q (2, 3 ; 8) GR	←	(1, 4 ; 8) GR	E	179.103 26	−7.4	8058
* 6912	R (1, 5 ; 14) GR	←	(0, 6 ; 13) GR	A	179.109 50	0.0	4660
* 6913	Q (2, 3 ; 7) GR	←	(1, 4 ; 7) GR	E	179.114 16	−0.2	1844
* 6914	Q (2, 3 ; 6) GR	←	(1, 4 ; 6) GR	E	179.123 32	0.0	1456
6915	Q (2, 3 ; 5) GR	←	(1, 4 ; 5) GR	E	179.130 88	−3.7	1262
* 6916	P (1, 1 −; 12) GR	←	(0, 2 +; 13) GR	A	179.139 39	−0.5	6990
* 6917	R (1, 2 ; 4) GR	←	(0, 3 ; 3) GR	A	179.205 02	−2.5	5631
* 6918	P (1, 1 ; 4) GR	←	(0, 2 ; 5) GR	E	179.214 04	−0.9	6213
* 6919	P (1, 2 +; 10) GR	←	(0, 1 −; 11) GR	A	179.216 43	1.5	6601
* 6920	P (1, 1 ; 8) GR	←	(0, 0 ; 9) GR	E	179.312 49	−0.4	5825
* 6921	P (3, 1 ; 8) GR	←	(2, 0 ; 9) GR	E	179.315 68	−0.3	4757
* 6922	R (3, 4 ; 14) GR	←	(2, 5 ; 13) GR	E	179.468 22	0.2	3300
* 6923	R (1, 4 ; 14) GR	←	(0, 5 ; 13) GR	E	179.473 11	−0.6	3980
* 6924	P (1, 2 −; 11) GR	←	(0, 1 +; 12) GR	A	179.512 84	−0.9	5436
* 6925	P (1, −4 ; 9) GR	←	(0, −5 ; 10) GR	E	179.526 03	0.2	4757
* 6926	R (1, 6 ; 16) GR	←	(0, 7 ; 15) GR	A	179.590 35	2.5	5339
* 6927	R (2, −1 ; 12) GR	←	(1, 0 ; 11) GR	E	179.590 35	−2.1	5339
* 6928	R (2, −2 ; 12) GR	←	(1, −1 ; 11) GR	E	179.673 61	−0.4	7475
* 6929	P (1, 0 ; 15) GR	←	(0, −1 ; 16) GR	E	179.708 86	2.3	8349
* 6930	P (1, 11 ; 15) GR	←	(0, 12 ; 16) GR	A	179.710 32	−0.5	0
* 6931	P (2, 0 ; 26) GR	←	(1, −1 ; 27) GR	E	179.727 23	−1.5	776
* 6932	R (2, 4 ; 18) GR	←	(1, 3 ; 17) GR	A	179.817 84	−0.2	8834
* 6933	P (1, 1 −; 29) GR	←	(0, 0 +; 30) GR	A	179.838 00	−0.1	1553
* 6934	R (1, 11 ; 21) GR	←	(1, 10 ; 20) GR	A	179.858 55	0.2	6699
* 6935	P (1, 3 ; 25) GR	←	(0, 4 ; 26) GR	E	179.872 95	0.2	1650
* 6936	P (2, −3 ; 4) GR	←	(2, −2 ; 5) GR	E	179.887 08	0.9	2038
* 6937	P (3, 0 ; 9) GR	←	(2, 1 ; 10) GR	E	179.928 43	−0.1	5436
6938	P (1, 0 ; 8) GR	←	(0, 1 ; 9) GR	E	180.008 70	4.9	9108
6939	P (2, −6 ; 26) GR	←	(1, −5 ; 27) GR	E	180.046 79	5.9	5049
* 6940	P (1, 4 ; 23) GR	←	(0, 3 ; 24) GR	E	180.084 41	1.4	2673
* 6941	R (1, −3 ; 11) GR	←	(0, −4 ; 10) GR	E	180.115 51	0.0	4257
* 6942	R (2, −4 ; 28) GR	←	(1, −5 ; 27) GR	E	180.136 30	−2.0	1485
* 6943	R (3, −3 ; 16) GR	←	(2, −4 ; 15) GR	E	180.235 96	0.7	3762
* 6944	R (2, −6 ; 11) GR	←	(2, −5 ; 10) GR	E	180.344 87	0.5	7128
* 6945	P (1, 5 ; 32) GR	←	(0, 4 ; 33) GR	E	180.344 87	−0.1	7128
* 6946	R (2, −5 ; 14) GR	←	(1, −4 ; 13) GR	E	180.349 57	−1.2	7425
* 6947	P (1, −3 ; 15) GR	←	(0, −2 ; 16) GR	E	180.401 30	1.6	4554
* 6948	R (1, −7 ; 27) GR	←	(0, −8 ; 26) GR	E	180.405 56	−1.9	891
* 6949	R (2, 2 ; 21) GR	←	(2, 1 ; 20) GR	E	180.435 74	0.3	5346
* 6950	R (2, 3 ; 17) GR	←	(1, 2 ; 16) GR	E	180.448 91	1.4	7623
* 6951	P (1, 3 −; 23) GR	←	(0, 4 +; 24) GR	A	180.467 08	−0.5	2277
* 6952	P (1, 3 +; 23) GR	←	(0, 4 −; 24) GR	A	180.473 85	1.3	1881
* 6953	P (3, 1 ; 10) GR	←	(2, 2 ; 11) GR	A	180.477 54	−0.5	6732
* 6954	R (1, 5 ; 15) GR	←	(0, 6 ; 14) GR	A	180.616 41	0.1	4455
* 6955	P (1, 1 +; 11) GR	←	(0, 2 −; 12) GR	A	180.626 96	−0.4	6336
* 6956	P (1, 7 ; 20) GR	←	(0, 8 ; 21) GR	A	180.630 01	−1.2	2574
* 6957	P (1, −2 ; 17) GR	←	(0, −3 ; 18) GR	E	180.754 69	0.2	5940
* 6958	R (1, 2 ; 5) GR	←	(0, 3 ; 4) GR	A	180.759 02	1.0	0
* 6959	P (1, 1 −; 11) GR	←	(0, 2 +; 12) GR	A	180.760 22	−0.4	6732
* 6960	P (1, 1 ; 3) GR	←	(0, 2 ; 4) GR	E	180.806 77	0.0	5346
* 6961	P (1, 1 ; 7) GR	←	(0, 0 ; 8) GR	E	180.892 08	−0.9	5742
* 6962	P (3, 1 ; 7) GR	←	(2, 0 ; 8) GR	E	180.894 15	0.3	4851
* 6963	P (1, 2 −; 10) GR	←	(0, 1 +; 11) GR	A	180.965 29	0.2	5544
* 6964	P (1, 2 +; 9) GR	←	(0, 1 −; 10) GR	A	180.971 02	0.3	5742
* 6965	R (1, 4 ; 15) GR	←	(0, 5 ; 14) GR	E	180.979 05	−0.1	4158
* 6966	R (3, 4 ; 15) GR	←	(2, 5 ; 14) GR	E	181.014 37	−0.4	3069
* 6967	Q (1, 8 ; 30) GR	←	(0, 9 ; 30) GR	A	181.024 93	−1.6	1287
* 6968	R (1, 6 ; 17) GR	←	(0, 7 ; 16) GR	A	181.038 83	−0.8	2772
* 6969	P (1, −4 ; 8) GR	←	(0, −5 ; 9) GR	E	181.131 88	−0.8	4851
* 6970	R (2, −1 ; 13) GR	←	(1, 0 ; 12) GR	E	181.141 22	−0.9	4356
* 6971	Q (1, 8 ; 29) GR	←	(0, 9 ; 29) GR	A	181.190 79	1.3	1683
* 6972	R (2, −2 ; 13) GR	←	(1, −1 ; 12) GR	E	181.214 50	0.4	7623
* 6973	P (1, 1 −; 28) GR	←	(0, 0 +; 29) GR	A	181.254 30	−2.0	1188
* 6974	P (1, 0 ; 14) GR	←	(0, −1 ; 15) GR	E	181.277 32	−0.5	3366
* 6975	P (1, 11 ; 14) GR	←	(0, 12 ; 15) GR	A	181.328 60	0.2	2376

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 6976	R (2, 4 ; 19) GR	←	(1, 3 ; 18) GR	A	181.341 01	−0.6	9306
* 6977	Q (1, 8 ; 28) GR	←	(0, 9 ; 28) GR	A	181.349 40	−3.4	7029
* 6978	P (2, 0 ; 25) GR	←	(1, −1 ; 26) GR	E	181.363 48	−1.1	990
* 6979	R (1, 11 ; 22) GR	←	(1, 10 ; 21) GR	A	181.402 61	−0.4	6138
* 6980	P (2, −3 ; 3) GR	←	(2, −2 ; 4) GR	E	181.460 11	0.2	1287
* 6981	Q (1, 8 ; 27) GR	←	(0, 9 ; 27) GR	A	181.502 69	1.0	1881
* 6982	P (3, 0 ; 8) GR	←	(2, 1 ; 9) GR	E	181.508 09	0.0	4653
* 6983	R (2, −4 ; 29) GR	←	(1, −5 ; 28) GR	E	181.543 21	0.6	1386
* 6984	P (1, 0 ; 7) GR	←	(0, 1 ; 8) GR	E	181.618 78	−0.5	6435
* 6985	R (1, −3 ; 12) GR	←	(0, −4 ; 11) GR	E	181.636 25	0.4	4158
* 6986	Q (1, 8 ; 26) GR	←	(0, 9 ; 26) GR	A	181.648 99	−1.0	2376
* 6987	P (1, 3 ; 24) GR	←	(0, 4 ; 25) GR	E	181.712 94	−1.0	1386
* 6988	P (2, −6 ; 25) GR	←	(1, −5 ; 26) GR	E	181.747 72	−0.3	1188
6989	R (1, −7 ; 28) GR	←	(0, −8 ; 27) GR	E	181.764 37	5.3	4059
* 6990	R (3, −3 ; 17) GR	←	(2, −4 ; 16) GR	E	181.779 09	−0.8	4158
6991	P (1, 5 ; 31) GR	←	(0, 4 ; 32) GR	E	181.789 06	4.6	2970
* 6992	Q (1, 8 ; 25) GR	←	(0, 9 ; 25) GR	A	181.789 06	−2.3	2970
* 6993	P (1, 4 ; 22) GR	←	(0, 3 ; 23) GR	E	181.846 70	0.3	2277
* 6994	R (2, −5 ; 15) GR	←	(1, −4 ; 14) GR	E	181.879 30	0.0	7425
* 6995	R (2, −6 ; 12) GR	←	(2, −5 ; 11) GR	E	181.906 36	−0.5	6732
* 6996	Q (1, 8 ; 24) GR	←	(0, 9 ; 24) GR	A	181.923 67	0.2	3069
* 6997	R (2, 2 ; 22) GR	←	(2, 1 ; 21) GR	E	181.976 75	2.3	8415
* 6998	R (2, 3 ; 18) GR	←	(1, 2 ; 17) GR	E	181.976 75	−2.9	8415
* 6999	R (1, −6 ; 13) GR	←	(0, −7 ; 12) GR	E	181.993 89	−1.2	2277
* 7000	Q (1, 8 ; 23) GR	←	(0, 9 ; 23) GR	A	182.051 92	0.3	2970
* 7001	P (3, 1 ; 9) GR	←	(2, 2 ; 10) GR	A	182.058 54	0.9	7524
* 7002	P (1, −3 ; 14) GR	←	(0, −2 ; 15) GR	E	182.112 28	0.3	4554
* 7003	R (1, 5 ; 16) GR	←	(0, 6 ; 15) GR	A	182.118 55	−1.0	4653
* 7004	P (1, 3 −; 22) GR	←	(0, 4 +; 23) GR	A	182.139 26	0.1	2178
* 7005	P (1, 3 +; 22) GR	←	(0, 4 −; 23) GR	A	182.143 80	0.0	2178
* 7006	Q (1, 8 ; 22) GR	←	(0, 9 ; 22) GR	A	182.174 45	−0.4	3267
* 7007	P (1, 1 +; 10) GR	←	(0, 2 −; 11) GR	A	182.256 05	1.3	7128
* 7008	P (1, 7 ; 19) GR	←	(0, 8 ; 20) GR	A	182.269 40	−2.5	2970
* 7009	Q (1, 8 ; 21) GR	←	(0, 9 ; 21) GR	A	182.291 31	−0.5	3762
* 7010	R (1, 2 ; 6) GR	←	(0, 3 ; 5) GR	A	182.307 63	−2.1	6237
* 7011	P (1, 1 −; 10) GR	←	(0, 2 +; 11) GR	A	182.375 23	−0.7	6831
* 7012	P (1, 1 ; 2) GR	←	(0, 2 ; 3) GR	E	182.394 35	−0.9	5247
* 7013	Q (1, 8 ; 20) GR	←	(0, 9 ; 20) GR	A	182.402 28	0.0	5643
* 7014	P (1, −2 ; 16) GR	←	(0, −3 ; 17) GR	E	182.415 69	−0.5	5445
* 7015	P (1, 2 −; 9) GR	←	(0, 1 +; 10) GR	A	182.428 74	0.1	5445
* 7016	P (3, 1 ; 6) GR	←	(2, 0 ; 7) GR	E	182.471 22	−0.8	4851
* 7017	R (1, 6 ; 18) GR	←	(0, 7 ; 17) GR	A	182.473 33	0.9	3564
* 7018	P (1, 1 ; 6) GR	←	(0, 0 ; 7) GR	E	182.475 86	−1.2	5643
* 7019	R (1, 4 ; 16) GR	←	(0, 5 ; 15) GR	E	182.479 59	−0.7	4059
* 7020	Q (1, 8 ; 19) GR	←	(0, 9 ; 19) GR	A	182.507 22	0.0	3861
* 7021	R (3, 4 ; 16) GR	←	(2, 5 ; 15) GR	E	182.558 77	0.0	3069
* 7022	Q (1, 8 ; 18) GR	←	(0, 9 ; 18) GR	A	182.601 72	−0.6	3168
* 7023	P (1, 1 −; 27) GR	←	(0, 0 +; 28) GR	A	182.686 55	−0.4	1188
* 7024	R (2, −1 ; 14) GR	←	(1, 0 ; 13) GR	E	182.691 13	0.5	3861
* 7025	Q (1, 8 ; 17) GR	←	(0, 9 ; 17) GR	A	182.708 51	−0.9	4158
* 7026	P (1, 2 +; 8) GR	←	(0, 1 −; 9) GR	A	182.710 22	0.7	5049
7027	P (1, 2 ; 8) GR	←	(0, 1 −; 9) GR	A	182.710 22	−6.7	5049
* 7028	P (1, −4 ; 7) GR	←	(0, −5 ; 8) GR	E	182.734 66	−0.9	4752
* 7029	R (2, −2 ; 14) GR	←	(1, −1 ; 13) GR	E	182.752 48	0.0	7425
* 7030	Q (1, 8 ; 16) GR	←	(0, 9 ; 16) GR	A	182.796 63	−0.4	4554
* 7031	P (1, 0 ; 13) GR	←	(0, −1 ; 14) GR	E	182.853 18	−0.2	3861
* 7032	R (2, 4 ; 20) GR	←	(1, 3 ; 19) GR	A	182.860 08	0.0	9207
* 7033	Q (1, 8 ; 15) GR	←	(0, 9 ; 15) GR	A	182.880 76	−0.5	4653
* 7034	R (2, −4 ; 30) GR	←	(1, −5 ; 29) GR	E	182.938 69	−0.4	1089
* 7035	R (1, 11 ; 23) GR	←	(1, 10 ; 22) GR	A	182.943 67	0.8	6237
* 7036	P (1, 11 ; 13) GR	←	(0, 12 ; 14) GR	A	182.943 67	−1.4	6237
* 7037	Q (1, 8 ; 14) GR	←	(0, 9 ; 14) GR	A	182.959 77	−1.6	4653
* 7038	P (2, 0 ; 24) GR	←	(1, −1 ; 25) GR	E	182.996 76	2.2	4554
* 7039	Q (1, 8 ; 13) GR	←	(0, 9 ; 13) GR	A	183.033 93	−0.8	4158
* 7040	P (3, 0 ; 7) GR	←	(2, 1 ; 8) GR	E	183.086 57	−0.6	4851
* 7041	Q (1, 8 ; 12) GR	←	(0, 9 ; 12) GR	A	183.102 91	−0.9	4059
* 7042	Q (1, 9 ; 27) GR	←	(0, 9 ; 27) GR	A	183.147 15	1.4	891
* 7043	R (1, −3 ; 13) GR	←	(0, −4 ; 12) GR	E	183.151 78	−0.6	4554
* 7044	Q (1, 8 ; 11) GR	←	(0, 9 ; 11) GR	A	183.166 71	−0.7	3861
* 7045	P (1, 0 ; 6) GR	←	(0, 1 ; 7) GR	E	183.224 54	* 0.4	7227
7046	Q (1, 8 ; 10) GR	←	(0, 9 ; 10) GR	A	183.226 44	10.0	4158
* 7047	P (1, 5 ; 30) GR	←	(0, 4 ; 31) GR	E	183.241 77	−1.9	1881
* 7048	Q (1, 9 ; 26) GR	←	(0, 9 ; 26) GR	A	183.268 87	−0.4	792
* 7049	Q (1, 8 ; 9) GR	←	(0, 9 ; 9) GR	A	183.278 98	1.0	2079
7050	R (3, −3 ; 18) GR	←	(2, −4 ; 17) GR	E	183.320 91	4.0	3960



Index	upper state				lower state					$\tilde{\nu}$	$\delta\tilde{\nu}\cdot 10^4$	Int.
	T	$(n, K; J)$	v		$(n, K; J)$	v		σ		/cm^{-1}	/cm^{-1}	/a.u.
* 7051	Q	(1, 9; 25)	GR	←	(0, 9; 25)	GR	A			183.383 86	0.5	990
* 7052	R	(2, −5; 16)	GR	←	(1, −4; 15)	GR	E			183.404 56	0.1	7128
* 7053	P	(2, −6; 24)	GR	←	(1, −5; 25)	GR	E			183.439 86	−0.6	1287
* 7054	R	(2, −6; 13)	GR	←	(2, −5; 12)	GR	E			183.466 98	0.3	6930
* 7055	Q	(1, 9; 24)	GR	←	(0, 9; 24)	GR	A			183.492 03	0.5	1188
* 7056	R	(2, 3; 19)	GR	←	(1, 2; 18)	GR	E			183.501 70	−0.1	7326
* 7057	R	(1, −6; 14)	GR	←	(0, −7; 13)	GR	E			183.504 17	−0.4	3069
* 7058	R	(2, 2; 23)	GR	←	(2, 1; 22)	GR	E			183.514 56	0.6	4554
* 7059	P	(1, 3; 23)	GR	←	(0, 4; 24)	GR	E			183.534 21	0.6	2079
* 7060	Q	(2, 4; 33)	GR	←	(2, 3; 33)	GR	E			183.553 44	−0.5	1980
* 7061	Q	(2, 4; 32)	GR	←	(2, 3; 32)	GR	E			183.589 45	−1.0	2376
7062	Q	(1, 9; 23)	GR	←	(0, 9; 23)	GR	A			183.593 94	5.6	2871
* 7063	P	(1, 4; 21)	GR	←	(0, 3; 22)	GR	E			183.593 94	−1.2	2871
* 7064	R	(1, 5; 17)	GR	←	(0, 6; 16)	GR	A			183.616 94	−0.8	4356
* 7065	Q	(2, 4; 31)	GR	←	(2, 3; 31)	GR	E			183.624 29	0.3	2970
* 7066	P	(3, 1; 8)	GR	←	(2, 2; 9)	GR	A			183.638 36	−1.4	7326
* 7067	Q	(2, 4; 30)	GR	←	(2, 3; 30)	GR	E			183.657 90	0.6	3168
* 7068	Q	(1, 9; 22)	GR	←	(0, 9; 22)	GR	A			183.688 18	−3.6	1386
* 7069	Q	(2, 4; 29)	GR	←	(2, 3; 29)	GR	E			183.690 37	0.3	3762
* 7070	Q	(2, 4; 28)	GR	←	(2, 3; 28)	GR	E			183.721 59	1.6	4059
* 7071	Q	(2, 4; 27)	GR	←	(2, 3; 27)	GR	E			183.751 68	−1.1	4752
7072	Q	(1, 9; 21)	GR	←	(0, 9; 21)	GR	A			183.776 63	−6.3	1089
* 7073	Q	(2, 4; 26)	GR	←	(2, 3; 26)	GR	E			183.780 62	0.1	4752
* 7074	P	(1, −3; 13)	GR	←	(0, −2; 14)	GR	E			183.805 31	2.2	5445
* 7075	P	(1, 3; 21)	GR	←	(0, 4 +; 22)	GR	A			183.805 31	−2.1	5445
* 7076	Q	(2, 4; 25)	GR	←	(2, 3; 25)	GR	E			183.808 61	1.3	6138
7077	P	(1, 3; 21)	GR	←	(0, 4 −; 22)	GR	A			183.808 61	−11.1	6138
* 7078	Q	(2, 4; 24)	GR	←	(2, 3; 24)	GR	E			183.835 12	0.5	5445
* 7079	R	(1, 2; 7)	GR	←	(0, 3; 6)	GR	A			183.852 29	0.1	5247
7080	Q	(1, 9; 20)	GR	←	(0, 9; 20)	GR	A			183.860 62	4.6	6039
* 7081	Q	(2, 4; 23)	GR	←	(2, 3; 23)	GR	E			183.860 62	−0.8	6039
* 7082	P	(1, 1 +; 9)	GR	←	(0, 2 −; 10)	GR	A			183.881 11	−0.9	6831
* 7083	Q	(2, 4; 22)	GR	←	(2, 3; 22)	GR	E			183.885 09	0.3	6336
* 7084	R	(1, 6; 19)	GR	←	(0, 7; 18)	GR	A			183.892 21	−0.8	2772
7085	P	(1, 2; 8)	GR	←	(0, 1 +; 9)	GR	A			183.903 05	5.0	5346
* 7086	P	(1, 2 −; 8)	GR	←	(0, 1 +; 9)	GR	A			183.903 05	0.2	5346
* 7087	P	(1, 7; 18)	GR	←	(0, 8; 19)	GR	A			183.906 10	−2.3	4752
* 7088	Q	(2, 4; 21)	GR	←	(2, 3; 21)	GR	E			183.908 43	0.2	6237
* 7089	Q	(2, 4; 20)	GR	←	(2, 3; 20)	GR	E			183.930 55	−0.1	6435
* 7090	Q	(1, 9; 19)	GR	←	(0, 9; 19)	GR	A			183.936 49	−0.2	1584
* 7091	Q	(2, 4; 19)	GR	←	(2, 3; 19)	GR	E			183.951 73	−0.1	6732
* 7092	Q	(2, 4; 18)	GR	←	(2, 3; 18)	GR	E			183.971 69	0.3	6633
* 7093	R	(1, 4; 17)	GR	←	(0, 5; 16)	GR	E			183.974 81	0.0	4059
* 7094	P	(1, 1; 1)	GR	←	(0, 2; 2)	GR	E			183.977 52	0.0	4950
* 7095	P	(1, 1 −; 9)	GR	←	(0, 2 +; 10)	GR	A			183.984 95	−0.6	6633
* 7096	Q	(2, 4; 17)	GR	←	(2, 3; 17)	GR	E			183.990 64	−0.1	6633
* 7097	Q	(1, 9; 18)	GR	←	(0, 9; 18)	GR	A			184.002 46	0.6	990
* 7098	Q	(2, 4; 16)	GR	←	(2, 3; 16)	GR	E			184.008 48	−0.6	7326
* 7099	Q	(2, 4; 15)	GR	←	(2, 3; 15)	GR	E			184.025 05	−2.3	7301
* 7100	Q	(2, 4; 14)	GR	←	(2, 3; 14)	GR	E			184.041 00	−0.4	7524
* 7101	P	(3, 1; 5)	GR	←	(2, 0; 6)	GR	E			184.047 24	−0.6	4554
* 7102	Q	(2, 4; 13)	GR	←	(2, 3; 13)	GR	E			184.055 57	0.6	7425
* 7103	P	(1, 1; 5)	GR	←	(0, 0; 6)	GR	E			184.062 12	−1.2	6138
* 7104	Q	(2, 4; 12)	GR	←	(2, 3; 12)	GR	E			184.069 38	0.0	8712
7105	P	(1, −2; 15)	GR	←	(0, −3; 16)	GR	E			184.069 38	−3.9	8712
7106	Q	(1, 9; 17)	GR	←	(0, 9; 17)	GR	A			184.081 62	9.7	7524
* 7107	Q	(2, 4; 11)	GR	←	(2, 3; 11)	GR	E			184.081 62	1.1	7524
* 7108	Q	(2, 6; 31)	GR	←	(1, 5; 31)	GR	E			184.089 27	−1.7	1089
* 7109	Q	(2, 4; 10)	GR	←	(2, 3; 10)	GR	E			184.093 15	−1.2	7425
* 7110	R	(3, 4; 17)	GR	←	(2, 5; 16)	GR	E			184.101 39	−1.9	3861
* 7111	Q	(2, 4; 9)	GR	←	(2, 3; 9)	GR	E			184.103 54	−1.6	7029
* 7112	Q	(2, 4; 8)	GR	←	(2, 3; 8)	GR	E			184.112 89	−0.7	7227
* 7113	Q	(2, 4; 7)	GR	←	(2, 3; 7)	GR	E			184.121 20	−0.6	6831
* 7114	Q	(2, 4; 6)	GR	←	(2, 3; 6)	GR	E			184.128 49	0.1	6435
7115	P	(1, 1 −; 26)	GR	←	(0, 0 +; 27)	GR	A			184.134 68	7.3	6336
* 7116	Q	(2, 4; 5)	GR	←	(2, 3; 5)	GR	E			184.134 68	0.1	6336
* 7117	Q	(2, 4; 4)	GR	←	(2, 3; 4)	GR	E			184.139 92	−2.7	4851
7118	Q	(1, 9; 16)	GR	←	(0, 9; 16)	GR	A			184.139 92	−4.0	4851
* 7119	Q	(1, 9; 15)	GR	←	(0, 9; 15)	GR	A			184.196 13	−2.5	792
* 7120	R	(2, −1; 15)	GR	←	(1, 0; 14)	GR	E			184.240 20	0.0	4158
* 7121	Q	(1, 9; 14)	GR	←	(0, 9; 14)	GR	A			184.248 06	0.4	990
* 7122	R	(2, −2; 15)	GR	←	(1, −1; 14)	GR	E			184.287 40	0.5	7326
* 7123	Q	(1, 9; 13)	GR	←	(0, 9; 13)	GR	A			184.295 26	1.2	594
* 7124	P	(1, −4; 6)	GR	←	(0, −5; 7)	GR	E			184.334 28	−0.3	4950
* 7125	Q	(2, 6; 30)	GR	←	(1, 5; 30)	GR	E			184.361 59	0.3	1584

Index	upper state				lower state					$\tilde{\nu}$	$\delta\tilde{\nu}\cdot 10^4$	Int.
	T	$(n, K; J)$	v		$(n, K; J)$	v		σ		/cm^{-1}	/cm^{-1}	/a.u.
* 7126	R	(2, 4; 21)	GR	←	(1, 3; 20)	GR	A			184.375 10	1.1	9306
7127	P	(1, 2 +; 7)	GR	←	(0, 1 −; 8)	GR	A			184.433 68	1.6	5445
* 7128	P	(1, 2; 7)	GR	←	(0, 1 −; 8)	GR	A			184.433 68	−1.3	5445
* 7129	P	(1, 0; 12)	GR	←	(0, −1; 13)	GR	E			184.434 69	0.1	4083
* 7130	R	(1, 11; 24)	GR	←	(1, 10; 23)	GR	A			184.481 30	0.2	5841
7131	Q	(1, 1; 34)	GR	←	(0, 2; 34)	GR	E			184.481 30	−3.9	5841
* 7132	P	(1, 6; 26)	GR	←	(0, 5; 27)	GR	A			184.551 67	1.7	2574
7133	Q	(1, 1; 33)	GR	←	(0, 2; 33)	GR	E			184.551 67	−6.0	2574
* 7134	P	(1, 11; 12)	GR	←	(0, 12; 13)	GR	A			184.556 35	−2.2	2970
7135	P	(1, −7; 28)	GR	←	(0, −6; 29)	GR	E			184.570 35	5.8	891
* 7136	Q	(2, 6; 29)	GR	←	(1, 5; 29)	GR	E			184.620 48	0.5	1386
7137	Q	(1, 1; 32)	GR	←	(0, 2; 32)	GR	E			184.626 35	5.8	1485
* 7138	P	(2, 0; 23)	GR	←	(1, −1; 24)	GR	E			184.626 35	−2.7	1485
* 7139	R	(1, −3; 14)	GR	←	(0, −4; 13)	GR	E			184.662 19	−0.1	4455
* 7140	P	(3, 0; 6)	GR	←	(2, 1; 7)	GR	E			184.663 94	−0.2	4356
* 7141	Q	(1, 1; 31)	GR	←	(0, 2; 31)	GR	E			184.703 39	0.4	1089
* 7142	P	(1, 5; 29)	GR	←	(0, 4; 30)	GR	E			184.705 41	−2.3	2079
* 7143	Q	(1, 1; 30)	GR	←	(0, 2; 30)	GR	E			184.784 88	0.1	1089
* 7144	P	(1, 0; 5)	GR	←	(0, 1; 6)	GR	E			184.825 33	−0.2	6336
* 7145	R	(3, −3; 19)	GR	←	(2, −4; 18)	GR	E			184.859 91	−0.4	3861
* 7146	Q	(2, 6; 28)	GR	←	(1, 5; 28)	GR	E			184.866 63	0.5	1782
* 7147	Q	(1, 1; 29)	GR	←	(0, 2; 29)	GR	E			184.870 64	−0.9	1287
* 7148	R	(2, −5; 17)	GR	←	(1, −4; 16)	GR	E			184.925 17	1.0	7029
* 7149	Q	(1, 1; 28)	GR	←	(0, 2; 28)	GR	E			184.960 82	1.0	1386
* 7150	R	(1, −6; 15)	GR	←	(0, −7; 14)	GR	E			185.009 22	1.1	2772
* 7151	R	(2, 3; 20)	GR	←	(1, 2; 19)	GR	E			185.022 54	0.3	7128
* 7152	R	(2, −6; 14)	GR	←	(2, −5; 13)	GR	E			185.026 67	0.6	6831
* 7153	R	(2, 2; 24)	GR	←	(2, 1; 23)	GR	E			185.051 11	0.7	4554
* 7154	Q	(1, 1; 27)	GR	←	(0, 2; 27)	GR	E			185.055 46	1.0	1584
* 7155	R	(1, 5; 18)	GR	←	(0, 6; 17)	GR	A			185.096 70	0.5	4059
* 7156	Q	(2, 6; 27)	GR	←	(1, 5; 27)	GR	E			185.099 30	−1.2	2376
* 7157	P	(2, −6; 23)	GR	←	(1, −5; 24)	GR	E			185.123 24	1.9	2178
* 7158	Q	(1, 1; 26)	GR	←	(0, 2; 26)	GR	E			185.154 24	−1.7	2277
* 7159	P	(3, 1; 7)	GR	←	(2, 2; 8)	GR	A			185.216 99	1.3	7227
* 7160	Q	(1, 1; 25)	GR	←	(0, 2; 25)	GR	E			185.258 04	−0.3	2277
* 7161	P	(1, −4; 32)	GR	←	(0, −3; 33)	GR	E			185.283 71	0.7	891
* 7162	R	(1, 6; 20)	GR	←	(0, 7; 19)	GR	A			185.295 56	0.7	2574
* 7163	Q	(2, 6; 26)	GR	←	(1, 5; 26)	GR	E			185.318 45	0.1	2178
* 7164	P	(1, 4; 20)	GR	←	(0, 3; 21)	GR	E			185.327 24	−0.7	2673
* 7165	P	(1, 3; 22)	GR	←	(0, 4; 23)	GR	E			185.336 65	0.3	2970
* 7166	Q	(1, 1; 24)	GR	←	(0, 2; 24)	GR	E			185.366 40	−0.1	2475
* 7167	P	(1, 2; 7)	GR	←	(0, 1 +; 8)	GR	A			185.387 72	3.3	5247
* 7168	P	(1, 2 −; 7)	GR	←	(0, 1 +; 8)	GR	A			185.387 72	0.0	5247
7169	R	(1, 2 +; 8)	GR	←	(0, 3 −; 7)	GR	A			185.390 42	−7.9	0
* 7170	R	(1, 2; 8)	GR	←	(0, 3; 7)	GR	A			185.391 96	−0.4	4455
7171	R	(1, 2 −; 8)	GR	←	(0, 3 +; 7)	GR	A			185.391 85	−6.9	0
* 7172	R	(1, 4; 18)	GR	←	(0, 5; 17)	GR	E			185.464 65	−0.7	3762
* 7173	P	(1, 3; 20)	GR	←	(0, 4 +; 21)	GR	A			185.467 59	1.1	3168
7174	P	(1, 3; 20)	GR	←	(0, 4 −; 21)	GR	A			185.470 07	−3.5	5346
* 7175	Q	(1, 1; 23)	GR	←	(0, 2; 23)	GR	E			185.479 30	0.7	2871
* 7176	P	(1, −3; 12)	GR	←	(0, −2; 13)	GR	E			185.481 33	−1.7	5049
* 7177	P	(1, 1 +; 8)	GR	←	(0, 2 −; 9)	GR	A			185.502 23	0.3	6930
* 7178	Q	(2, 6; 25)	GR	←	(1, 5; 25)	GR	E			185.523 47	−0.4	2376
* 7179	P	(1, 7; 17)	GR	←	(0, 8; 18)	GR	A			185.539 99	−0.9	3069
* 7180	P	(1, 1 −; 8)	GR	←	(0, 2 +; 9)	GR	A			185.589 84	1.2	6831
* 7181	P	(1, 1 −; 25)	GR	←	(0, 0 +; 26)	GR	A			185.596 10	1.4	4059
* 7182	Q	(1, 1; 22)	GR	←	(0, 2; 22)	GR	E			185.596 10	−1.4	4059
* 7183	P	(3, 1; 4)	GR	←	(2, 0; 5)	GR	E			185.621 94	0.0	4059
* 7184	R	(3, 4; 18)	GR	←	(2, 5; 17)	GR	E			185.642 69	1.1	2871
* 7185	P	(1, 1; 4)	GR	←	(0, 0; 5)	GR	E			185.649 37	0.1	5049
* 7186	Q	(2, 6; 24)	GR	←	(1, 5; 24)	GR	E			185.714 54	0.1	3564
7187	Q	(1, 1; 21)	GR	←	(0, 2; 21)	GR	E			185.717 02	3.8	7326
* 7188	P	(1, −2; 14)	GR	←	(0, −3; 15)	GR	E			185.717 02	−2.1	7326
* 7189	R	(2, −1; 16)	GR	←	(1, 0; 15)	GR	E			185.788 77	0.3	3960
* 7190	R	(2, −2; 16)	GR	←	(1, −1; 15)	GR	E			185.819 10	0.0	7128
* 7191	R	(2, 5; 5)	GR	←	(2, 4; 4)	GR	A			185.827 40	−0.3	8613
* 7192	Q	(1, 1; 20)	GR	←	(0, 2; 20)	GR	E			185.839 33	0.0	3465
* 7193	R	(2, 4; 22)	GR	←	(1, 3; 21)	GR	A			185.885 66	−0.9	8514
* 7194	Q	(2, 6; 23)	GR	←	(1, 5; 23)	GR	E			185.891 56	0.4	3069
* 7195	P	(1, −4; 5)	GR	←	(0, −5; 6)	GR	E			185.930 65	0.0	5148
* 7196	Q	(1, 1; 19)	GR	←	(0, 2; 19)	GR	E			185.962 94	−0.4	4455
* 7197	R	(1, 11; 25)	GR	←	(1, 10; 24)	GR	A			186.015 16	−0.9	6534
* 7198	P	(1, 0; 11)	GR	←	(0, −1; 12)	GR	E			186.020 96	0.8	4158
* 7199	Q	(2, 6; 22)	GR	←	(1, 5; 22)	GR	E			186.054 56	0.2	3168
* 7200	Q	(1, 1; 18)	GR	←	(0, 2; 18)	GR	E			186.085 97	−0.8	4455



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 7201	P (1, 2 +; 6) GR	←	(0, 1 −; 7) GR	A	186.140 45	0.0	4653
* 7202	P (1, 2 ; 6) GR	←	(0, 1 −; 7) GR	A	186.140 45	−2.0	4653
* 7203	P (1, 11 ; 11) GR	←	(0, 12 ; 12) GR	A	186.166 11	1.4	0
* 7204	R (1, −3 ; 15) GR	←	(0, −4 ; 14) GR	E	186.166 88	−3.0	4752
* 7205	P (1, 5 ; 28) GR	←	(0, 4 ; 29) GR	E	186.179 60	−1.9	2277
* 7206	Q (2, 6 ; 21) GR	←	(1, 5 ; 21) GR	E	186.203 79	0.6	3861
* 7207	Q (1, 1 ; 17) GR	←	(0, 2 ; 17) GR	E	186.206 39	0.0	4950
* 7208	P (3, 0 ; 5) GR	←	(2, 1 ; 6) GR	E	186.239 95	0.1	4752
* 7209	P (2, 0 ; 22) GR	←	(1, −1 ; 23) GR	E	186.253 66	0.1	1676
* 7210	R (1, 5 ; 8) GR	←	(0, 6 ; 7) GR	E	186.263 00	2.3	990
* 7211	Q (1, 1 ; 16) GR	←	(0, 2 ; 16) GR	E	186.322 38	−0.2	4851
* 7212	Q (2, 6 ; 20) GR	←	(1, 5 ; 20) GR	E	186.339 42	−1.2	4059
* 7213	P (1, −7 ; 27) GR	←	(0, −6 ; 28) GR	E	186.374 52	−1.4	990
* 7214	R (3, −3 ; 20) GR	←	(2, −4 ; 19) GR	E	186.397 27	−0.4	4455
* 7215	P (1, 6 ; 25) GR	←	(0, 5 ; 26) GR	A	186.409 97	−0.3	1683
* 7216	P (1, 0 ; 4) GR	←	(0, 1 ; 5) GR	E	186.421 58	−0.7	6237
* 7217	Q (1, 1 ; 15) GR	←	(0, 2 ; 15) GR	E	186.432 25	−0.3	5445
* 7218	R (2, −5 ; 18) GR	←	(1, −4 ; 17) GR	E	186.440 87	0.3	7128
* 7219	Q (2, 6 ; 19) GR	←	(1, 5 ; 19) GR	E	186.462 17	0.7	4059
* 7220	R (1, −6 ; 16) GR	←	(0, −7 ; 15) GR	E	186.508 91	−0.7	2277
* 7221	Q (1, 1 ; 14) GR	←	(0, 2 ; 14) GR	E	186.534 55	−0.3	6039
* 7222	R (2, 3 ; 21) GR	←	(1, 2 ; 20) GR	E	186.539 35	−0.3	7128
* 7223	Q (2, 6 ; 18) GR	←	(1, 5 ; 18) GR	E	186.572 34	0.3	4158
* 7224	R (2, −6 ; 15) GR	←	(2, −5 ; 14) GR	E	186.585 28	0.4	7821
* 7225	R (1, 5 ; 19) GR	←	(0, 6 ; 18) GR	A	186.589 00	0.5	4554
* 7226	Q (1, 1 ; 13) GR	←	(0, 2 ; 13) GR	E	186.628 44	0.1	5643
* 7227	Q (2, 6 ; 17) GR	←	(1, 5 ; 17) GR	E	186.670 42	0.5	4455
* 7228	R (1, 6 ; 21) GR	←	(0, 7 ; 20) GR	A	186.682 06	−0.3	2574
* 7229	Q (1, 1 ; 12) GR	←	(0, 2 ; 12) GR	E	186.713 24	−0.4	6138
* 7230	Q (2, 6 ; 16) GR	←	(1, 5 ; 16) GR	E	186.757 24	0.8	4554
* 7231	Q (1, 1 ; 11) GR	←	(0, 2 ; 11) GR	E	186.788 62	0.0	6237
* 7232	P (3, 1 ; 6) GR	←	(2, 2 ; 7) GR	A	186.794 45	0.8	7029
* 7233	P (2, −6 ; 22) GR	←	(1, −5 ; 23) GR	E	186.797 09	−1.3	2376
* 7234	Q (2, 6 ; 15) GR	←	(1, 5 ; 15) GR	E	186.833 53	0.1	5445
* 7235	Q (1, 1 ; 10) GR	←	(0, 2 ; 10) GR	E	186.854 86	−0.2	6336
* 7236	P (1, −4 ; 31) GR	←	(0, −3 ; 32) GR	E	186.872 48	−1.5	1188
* 7237	P (1, 2 ; 6) GR	←	(0, 1 +; 7) GR	A	186.882 69	2.0	4950
* 7238	P (1, 2 −; 6) GR	←	(0, 1 +; 7) GR	A	186.882 69	0.1	4950
* 7239	Q (2, 6 ; 14) GR	←	(1, 5 ; 14) GR	E	186.900 15	0.4	4950
* 7240	Q (1, 1 ; 9) GR	←	(0, 2 ; 9) GR	E	186.912 23	−0.1	6336
* 7241	R (1, 2 +; 9) GR	←	(0, 3 −; 8) GR	A	186.925 43	−0.2	4554
* 7242	R (1, 2 +; 9) GR	←	(0, 3 ; 8) GR	A	186.925 43	−1.3	4554
* 7243	R (1, 2 −; 9) GR	←	(0, 3 ; 8) GR	A	186.927 60	2.5	4455
* 7244	R (1, 2 −; 9) GR	←	(0, 3 +; 8) GR	A	186.927 60	1.2	4455
* 7245	R (1, 4 ; 19) GR	←	(0, 5 ; 18) GR	E	186.948 87	0.3	4158
* 7246	Q (2, 6 ; 13) GR	←	(1, 5 ; 13) GR	E	186.957 73	−0.7	4455
* 7247	Q (1, 1 ; 8) GR	←	(0, 2 ; 8) GR	E	186.961 43	0.2	6039
* 7248	Q (1, 1 ; 7) GR	←	(0, 2 ; 7) GR	E	187.002 94	0.0	6336
* 7249	Q (2, 6 ; 12) GR	←	(1, 5 ; 12) GR	E	187.007 32	0.3	5049
* 7250	Q (1, 1 ; 6) GR	←	(0, 2 ; 6) GR	E	187.037 45	−0.3	6039
* 7251	P (1, 4 ; 19) GR	←	(0, 3 ; 20) GR	E	187.047 11	1.3	3267
* 7252	Q (2, 6 ; 11) GR	←	(1, 5 ; 11) GR	E	187.049 61	0.9	6435
* 7253	Q (1, 1 ; 5) GR	←	(0, 2 ; 5) GR	E	187.065 76	0.2	5940
* 7254	P (1, 1 −; 24) GR	←	(0, 0 +; 25) GR	A	187.071 78	0.5	2475
* 7255	Q (2, 6 ; 10) GR	←	(1, 5 ; 10) GR	E	187.085 39	0.6	4851
* 7256	Q (1, 1 ; 4) GR	←	(0, 2 ; 4) GR	E	187.088 33	−0.2	5247
* 7257	Q (1, 1 ; 3) GR	←	(0, 2 ; 3) GR	E	187.105 73	−0.4	4752
* 7258	Q (2, 6 ; 9) GR	←	(1, 5 ; 9) GR	E	187.115 30	−0.4	4257
* 7259	Q (1, 1 ; 2) GR	←	(0, 2 ; 2) GR	E	187.118 71	2.0	8217
* 7260	P (1, 1 +; 7) GR	←	(0, 2 −; 8) GR	A	187.118 71	−1.4	8217
* 7261	P (1, 3 ; 21) GR	←	(0, 4 ; 22) GR	E	187.121 00	1.6	2871
7262	P (1, 3 ; 19) GR	←	(0, 4 +; 20) GR	A	187.125 12	6.8	3168
* 7263	P (1, 3 ; 19) GR	←	(0, 4 −; 20) GR	A	187.126 21	−1.6	2087
* 7264	Q (2, −3 ; 31) GR	←	(2, −2 ; 31) GR	E	187.131 27	0.7	2673
* 7265	Q (2, 6 ; 8) GR	←	(1, 5 ; 8) GR	E	187.140 21	0.5	3663
* 7266	P (1, −3 ; 11) GR	←	(0, −2 ; 12) GR	E	187.143 40	−0.8	4851
* 7267	Q (2, 6 ; 7) GR	←	(1, 5 ; 7) GR	E	187.160 85	0.6	3663
* 7268	P (1, 7 ; 16) GR	←	(0, 8 ; 17) GR	A	187.170 73	−1.2	3861
* 7269	Q (2, 6 ; 6) GR	←	(1, 5 ; 6) GR	E	187.177 33	−0.1	2376
* 7270	R (3, 4 ; 19) GR	←	(2, 5 ; 18) GR	E	187.182 02	0.2	3663
* 7271	P (1, 1 −; 7) GR	←	(0, 2 +; 8) GR	A	187.190 24	−0.1	6732
* 7272	Q (2, −3 ; 30) GR	←	(2, −2 ; 30) GR	E	187.195 34	3.1	3347
* 7273	P (3, 1 ; 3) GR	←	(2, 0 ; 4) GR	E	187.195 34	−1.9	3347
* 7274	P (1, 1 ; 3) GR	←	(0, 0 ; 4) GR	E	187.235 80	−1.3	4752
* 7275	Q (2, −3 ; 29) GR	←	(2, −2 ; 29) GR	E	187.238 06	0.5	3960

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 7276	Q (2, −3 ; 28) GR	←	(2, −2 ; 28) GR	E	187.271 40	−1.2	4059
* 7277	Q (2, −3 ; 27) GR	←	(2, −2 ; 27) GR	E	187.303 62	−1.1	4653
* 7278	Q (2, −3 ; 26) GR	←	(2, −2 ; 26) GR	E	187.334 68	0.7	4752
* 7279	R (2, −1 ; 17) GR	←	(1, 0 ; 16) GR	E	187.337 06	1.1	4158
* 7280	R (2, −2 ; 17) GR	←	(1, −1 ; 16) GR	E	187.347 47	0.1	7029
* 7281	P (1, −2 ; 13) GR	←	(0, −3 ; 14) GR	E	187.357 93	−3.7	8415
* 7282	Q (2, −3 ; 25) GR	←	(2, −2 ; 25) GR	E	187.364 70	0.5	5247
* 7283	R (2, 5 ; 6) GR	←	(2, 4 ; 5) GR	A	187.391 02	0.7	8811
* 7284	R (2, 4 ; 23) GR	←	(1, 3 −; 22) GR	A	187.391 02	0.3	8811
* 7285	R (2, 4 +; 23) GR	←	(1, 3 −; 22) GR	A	187.391 02	0.2	8811
7286	R (2, 4 −; 23) GR	←	(1, 3 +; 22) GR	A	187.392 63	2.9	7425
* 7287	R (2, 4 ; 23) GR	←	(1, 3 +; 22) GR	A	187.392 63	1.9	7425
7288	Q (2, −3 ; 24) GR	←	(2, −2 ; 24) GR	E	187.392 63	−8.3	7425
* 7289	Q (2, −3 ; 23) GR	←	(2, −2 ; 23) GR	E	187.421 19	0.0	5841
* 7290	Q (2, −3 ; 22) GR	←	(2, −2 ; 22) GR	E	187.447 78	0.2	6039
* 7291	Q (2, −3 ; 21) GR	←	(2, −2 ; 21) GR	E	187.473 28	0.6	6336
* 7292	Q (2, −3 ; 20) GR	←	(2, −2 ; 20) GR	E	187.497 50	0.2	6633
* 7293	Q (2, −3 ; 19) GR	←	(2, −2 ; 19) GR	E	187.520 73	0.2	6930
* 7294	P (1, −4 ; 4) GR	←	(0, −5 ; 5) GR	E	187.523 31	−1.8	5544
* 7295	Q (2, −3 ; 18) GR	←	(2, −2 ; 18) GR	E	187.542 79	0.3	6930
* 7296	R (1, 11 ; 26) GR	←	(1, 10 ; 25) GR	A	187.545 58	−0.5	4950
* 7297	Q (2, −3 ; 17) GR	←	(2, −2 ; 17) GR	E	187.563 60	0.1	6534
* 7298	Q (2, −3 ; 16) GR	←	(2, −2 ; 16) GR	E	187.583 35	0.4	7326
* 7299	Q (2, −3 ; 15) GR	←	(2, −2 ; 15) GR	E	187.601 96	0.0	7029
* 7300	P (1, 0 ; 10) GR	←	(0, −1 ; 11) GR	E	187.610 55	−0.1	4455
* 7301	Q (2, −3 ; 14) GR	←	(2, −2 ; 14) GR	E	187.619 34	0.1	7128
* 7302	Q (2, −3 ; 13) GR	←	(2, −2 ; 13) GR	E	187.635 64	−0.8	7326
* 7303	Q (2, −3 ; 12) GR	←	(2, −2 ; 12) GR	E	187.650 80	0.6	7425
7304	P (1, 5 ; 27) GR	←	(0, 4 ; 28) GR	E	187.664 62	4.8	7920
* 7305	Q (2, −3 ; 11) GR	←	(2, −2 ; 11) GR	E	187.664 62	−0.4	7920
* 7306	R (1, −3 ; 16) GR	←	(0, −4 ; 15) GR	E	187.666 85	0.8	4653
* 7307	Q (2, −3 ; 10) GR	←	(2, −2 ; 10) GR	E	187.677 55	−0.1	7722
* 7308	Q (2, −3 ; 9) GR	←	(2, −2 ; 9) GR	E	187.689 28	0.4	7227
* 7309	Q (2, −3 ; 8) GR	←	(2, −2 ; 8) GR	E	187.699 74	−0.6	7227
* 7310	Q (2, −3 ; 7) GR	←	(2, −2 ; 7) GR	E	187.709 06	−0.1	6831
* 7311	Q (2, −3 ; 6) GR	←	(2, −2 ; 6) GR	E	187.717 31	0.6	6633
* 7312	Q (2, −3 ; 5) GR	←	(2, −2 ; 5) GR	E	187.724 24	0.3	6336
* 7313	Q (2, −3 ; 4) GR	←	(2, −2 ; 4) GR	E	187.730 16	−0.3	5940
* 7314	Q (2, −3 ; 3) GR	←	(2, −2 ; 3) GR	E	187.734 69	−0.5	4653
* 7315	R (1, 5 ; 9) GR	←	(0, 6 ; 8) GR	E	187.808 47	−2.2	891
* 7316	P (3, 0 ; 4) GR	←	(2, 1 ; 5) GR	E	187.814 72	0.2	4554
* 7317	P (1, 2 +; 5) GR	←	(0, 1 −; 6) GR	A	187.831 04	0.2	4455
* 7318	P (1, 2 ; 5) GR	←	(0, 1 −; 6) GR	A	187.831 04	−1.8	4455
* 7319	P (2, 0 ; 21) GR	←	(1, −1 ; 22) GR	E	187.877 56	−1.1	1287
* 7320	Q (1, −8 ; 26) GR	←	(0, −9 ; 26) GR	E	187.909 32	−0.8	693
* 7321	R (3, −3 ; 21) GR	←	(2, −4 ; 20) GR	E	187.932 73	0.4	3762
* 7322	R (2, −5 ; 19) GR	←	(1, −4 ; 18) GR	E	187.951 14	−0.2	6831
* 7323	Q (1, −8 ; 25) GR	←	(0, −9 ; 25) GR	E	187.991 54	−0.4	891
* 7324	R (1, −6 ; 17) GR	←	(0, −7 ; 16) GR	E	188.003 49	0.2	2376
* 7325	P (1, 0 ; 3) GR	←	(0, 1 ; 4) GR	E	188.013 37	−1.1	5841
7326	R (1, 6 ; 22) GR	←	(0, 7 ; 21) GR	A	188.051 94	5.6	7524
* 7327	R (2, 3 ; 22) GR	←	(1, 2 ; 21) GR	E	188.051 94	−0.8	7524
* 7328	R (1, 5 ; 20) GR	←	(0, 6 ; 19) GR	A	188.070 94	−0.1	4455
7329	Q (1, −8 ; 24) GR	←	(0, −9 ; 24) GR	E	188.070 94	−7.5	4455
* 7330	R (2, −6 ; 16) GR	←	(2, −5 ; 15) GR	E	188.142 60	−0.3	6435
* 7331	Q (1, −8 ; 23) GR	←	(0, −9 ; 23) GR	E	188.149 28	−0.1	1386
* 7332	P (1, −7 ; 26) GR	←	(0, −6 ; 27) GR	E	188.164 39	−1.6	891
7333	Q (1, −8 ; 22) GR	←	(0, −9 ; 22) GR	E	188.225 43	4.8	1386
* 7334	P (1, 6 ; 24) GR	←	(0, 5 ; 25) GR	A	188.249 28	0.3	1485
* 7335	Q (1, −8 ; 21) GR	←	(0, −9 ; 21) GR	E	188.297 90	0.9	1188
* 7336	Q (1, −8 ; 20) GR	←	(0, −9 ; 20) GR	E	188.368 10	−0.8	1782
* 7337	P (3, 1 ; 5) GR	←	(2, 2 ; 6) GR	A	188.370 48	−0.4	6732
* 7338	P (1, 2 ; 5) GR	←	(0, 1 +; 6) GR	A	188.387 70	0.1	4455
* 7339	P (1, 2 −; 5) GR	←	(0, 1 +; 6) GR	A	188.387 70	0.0	4455
* 7340	P (1, 4 ; 31) GR	←	(0, 5 ; 32) GR	A	188.401 58	−0.4	1188
* 7341	R (1, 4 ; 20) GR	←	(0, 5 ; 19) GR	E	188.427 35	−0.3	3663
* 7342	Q (1, −8 ; 19) GR	←	(0, −9 ; 19) GR	E	188.435 91	0.3	1485
* 7343	R (1, 2 +; 10) GR	←	(0, 3 −; 9) GR	A	188.454 46	0.9	4554
* 7344	R (1, 2 +; 10) GR	←	(0, 3 ; 9) GR	A	188.454 46	−2.2	4554
* 7345	R (1, 2 −; 10) GR	←	(0, 3 ; 9) GR	A	188.457 45	0.9	4851
* 7346	R (1, 2 −; 10) GR	←	(0, 3 +; 9) GR	A	188.457 45	−0.9	4851
* 7347	P (2, −6 ; 21) GR	←	(1, −5 ; 22) GR	E	188.463 15	0.0	1782
* 7348	P (1, −4 ; 30) GR	←	(0, −3 ; 31) GR	E	188.465 91	−0.8	1584
* 7349	Q (1, −8 ; 18) GR	←	(0, −9 ; 18) GR	E	188.500 80	0.3	1881
* 7350	P (3, 2 ; 29) GR	←	(3, 1 ; 30) GR	E	188.537 06	−0.4	792



Index	upper state T (n, K ; J)	v	←	lower state (n, K ; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 7351	P (1, 1 $^-$; 23)	GR	← (0, 0 $^+$; 24)	GR	A	188.560 59	−0.8	2376
* 7352	Q (1, −8 ; 17)	GR	← (0, −9 ; 17)	GR	E	188.562 98	−0.4	2376
* 7353	Q (1, −8 ; 16)	GR	← (0, −9 ; 16)	GR	E	188.621 98	−0.8	1485
* 7354	Q (1, −8 ; 15)	GR	← (0, −9 ; 15)	GR	E	188.678 03	0.2	1683
* 7355	R (3, 4 ; 20)	GR	← (2, 5 ; 19)	GR	E	188.719 63	0.2	2871
* 7356	P (1, 1 $^+$; 6)	GR	← (0, 2 $^-$; 7)	GR	A	188.730 87	0.1	6732
* 7357	Q (1, −8 ; 14)	GR	← (0, −9 ; 14)	GR	E	188.730 87	−0.3	6732
* 7358	P (1, 4 ; 18)	GR	← (0, 3 ; 19)	GR	E	188.754 03	0.2	3168
* 7359	P (3, 1 ; 2)	GR	← (2, 0 ; 3)	GR	E	188.767 93	−0.3	2970
* 7360	P (1, 3 ; 18)	GR	← (0, 4 $^+$; 19)	GR	A	188.776 98	1.4	4257
7361	P (1, 3 ; 18)	GR	← (0, 4 $^-$; 19)	GR	A	188.776 98	−6.8	4257
* 7362	Q (1, −8 ; 13)	GR	← (0, −9 ; 13)	GR	E	188.780 47	−2.3	1584
* 7363	P (1, 1 $^-$; 6)	GR	← (0, 2 $^+$; 7)	GR	A	188.786 56	−0.4	6930
* 7364	P (1, −3 ; 10)	GR	← (0, −2 ; 11)	GR	E	188.792 80	−0.5	4653
* 7365	P (1, 7 ; 15)	GR	← (0, 8 ; 16)	GR	A	188.798 59	0.0	3663
* 7366	P (1, 1 ; 2)	GR	← (0, 0 ; 3)	GR	E	188.820 79	0.0	3564
* 7367	Q (1, −8 ; 12)	GR	← (0, −9 ; 12)	GR	E	188.827 17	0.4	1188
* 7368	Q (1, −8 ; 11)	GR	← (0, −9 ; 11)	GR	E	188.870 06	−1.3	1980
* 7369	R (2, −2 ; 18)	GR	← (1, −1 ; 17)	GR	E	188.872 41	1.1	7227
* 7370	R (2, −1 ; 18)	GR	← (1, 0 ; 17)	GR	E	188.884 99	−0.3	3663
* 7371	P (1, 3 ; 20)	GR	← (0, 4 ; 21)	GR	E	188.887 38	0.1	3663
* 7372	R (2, 4 $^+$; 24)	GR	← (1, 3 $^-$; 23)	GR	A	188.891 84	0.0	6336
* 7373	R (2, 4 ; 24)	GR	← (1, 3 $^-$; 23)	GR	A	188.891 84	−0.2	6336
* 7374	R (2, 4 $^-$; 24)	GR	← (1, 3 $^+$; 23)	GR	A	188.893 75	0.7	6534
* 7375	R (2, 4 ; 24)	GR	← (1, 3 $^+$; 23)	GR	A	188.893 75	0.4	6534
* 7376	Q (1, −8 ; 10)	GR	← (0, −9 ; 10)	GR	E	188.910 12	−0.2	1089
* 7377	Q (1, −8 ; 9)	GR	← (0, −9 ; 9)	GR	E	188.946 34	0.1	1188
* 7378	R (2, 5 ; 7)	GR	← (2, 4 ; 6)	GR	A	188.953 38	0.4	8514
* 7379	P (1, −2 ; 12)	GR	← (0, −3 ; 13)	GR	E	188.993 59	−0.2	6534
* 7380	R (1, 11 ; 27)	GR	← (1, 10 ; 26)	GR	A	189.071 55	−0.9	4653
* 7381	P (1, 5 ; 26)	GR	← (0, 4 ; 27)	GR	E	189.159 14	−1.8	2844
* 7382	R (1, −3 ; 17)	GR	← (0, −4 ; 16)	GR	E	189.160 37	−0.7	4184
* 7383	P (1, 8 ; 31)	GR	← (0, 7 ; 32)	GR	E	189.187 02	−1.0	792
* 7384	P (1, 0 ; 9)	GR	← (0, −1 ; 10)	GR	E	189.202 56	−1.0	5742
* 7385	Q (2, 8 ; 38)	GR	← (1, 7 ; 38)	GR	A	189.216 88	−0.1	1089
7386	Q (2, 8 ; 37)	GR	← (1, 7 ; 37)	GR	A	189.304 18	3.2	2970
7387	R (1, 5 ; 10)	GR	← (0, 6 ; 9)	GR	E	189.353 50	−3.8	1089
* 7388	P (3, 0 ; 3)	GR	← (2, 1 ; 4)	GR	E	189.388 17	0.2	5049
* 7389	Q (2, 8 ; 36)	GR	← (1, 7 ; 36)	GR	A	189.388 17	−0.1	5049
* 7390	R (1, 6 ; 23)	GR	← (0, 7 ; 22)	GR	A	189.402 81	−0.4	2277
* 7391	R (2, −5 ; 20)	GR	← (1, −4 ; 19)	GR	E	189.455 86	−0.4	6732
* 7392	R (3, −3 ; 22)	GR	← (2, −4 ; 21)	GR	E	189.466 15	0.2	4653
* 7393	Q (2, 8 ; 35)	GR	← (1, 7 ; 35)	GR	A	189.468 87	−0.2	2574
* 7394	R (1, −6 ; 18)	GR	← (0, −7 ; 17)	GR	E	189.492 63	0.4	2475
* 7395	P (2, 0 ; 20)	GR	← (1, −1 ; 21)	GR	E	189.498 85	−0.7	2376
7396	P (1, 2 ; 32)	GR	← (0, 3 ; 33)	GR	E	189.501 00	−4.6	1386
* 7397	P (1, 2 $^+$; 4)	GR	← (0, 1 $^-$; 5)	GR	A	189.504 96	0.8	3366
* 7398	P (1, 2 ; 4)	GR	← (0, 1 $^-$; 5)	GR	A	189.504 96	0.4	3366
* 7399	R (1, 5 ; 21)	GR	← (0, 6 ; 20)	GR	A	189.546 90	0.6	5346
* 7400	Q (2, 8 ; 34)	GR	← (1, 7 ; 34)	GR	A	189.546 90	−0.7	5346
* 7401	R (2, 3 ; 23)	GR	← (1, 2 ; 22)	GR	E	189.560 49	1.1	6534
* 7402	P (1, 0 ; 2)	GR	← (0, 1 ; 3)	GR	E	189.600 93	−0.1	5445
* 7403	Q (2, 8 ; 33)	GR	← (1, 7 ; 33)	GR	A	189.622 09	−0.1	2970
* 7404	Q (2, 8 ; 32)	GR	← (1, 7 ; 32)	GR	A	189.694 20	−1.2	3465
* 7405	R (2, −6 ; 17)	GR	← (2, −5 ; 16)	GR	E	189.698 89	0.3	6831
* 7406	Q (2, 8 ; 31)	GR	← (1, 7 ; 31)	GR	A	189.763 30	−0.1	4059
* 7407	Q (2, 8 ; 30)	GR	← (1, 7 ; 30)	GR	A	189.829 77	1.6	4653
* 7408	P (1, 4 ; 30)	GR	← (0, 5 ; 31)	GR	A	189.854 51	0.4	2376
* 7409	Q (2, 8 ; 29)	GR	← (1, 7 ; 29)	GR	A	189.893 24	−0.8	4752
* 7410	R (1, 4 ; 21)	GR	← (0, 5 ; 20)	GR	E	189.900 02	0.8	3960
* 7411	P (1, 2 ; 4)	GR	← (0, 1 $^+$; 5)	GR	A	189.902 45	0.0	4059
* 7412	P (1, 2 $^-$; 4)	GR	← (0, 1 $^+$; 5)	GR	A	189.902 45	−0.6	4059
* 7413	P (1, −7 ; 25)	GR	← (0, −6 ; 26)	GR	E	189.940 13	1.2	1089
* 7414	P (3, 1 ; 4)	GR	← (2, 2 ; 5)	GR	A	189.945 27	0.2	6237
* 7415	Q (2, 8 ; 28)	GR	← (1, 7 ; 28)	GR	A	189.954 06	−0.5	5049
7416	R (1, 2 $^+$; 11)	GR	← (0, 3 $^-$; 10)	GR	A	189.978 21	5.4	6831
* 7417	R (1, 2 $^+$; 11)	GR	← (0, 3 ; 10)	GR	A	189.978 21	−0.3	6831
* 7418	R (1, 2 $^-$; 11)	GR	← (0, 3 ; 10)	GR	A	189.982 46	2.8	4752
* 7419	R (1, 2 $^-$; 11)	GR	← (0, 3 $^+$; 10)	GR	A	189.982 46	0.6	4752
* 7420	Q (2, 8 ; 27)	GR	← (1, 7 ; 27)	GR	A	190.012 17	−0.1	5445
* 7421	P (1, 1 $^-$; 22)	GR	← (0, 0 $^+$; 23)	GR	A	190.061 84	−1.4	3267
* 7422	P (1, −4 ; 29)	GR	← (0, −3 ; 30)	GR	E	190.063 80	0.2	1782
* 7423	Q (2, 8 ; 26)	GR	← (1, 7 ; 26)	GR	A	190.067 71	0.8	6138
7424	P (1, 6 ; 23)	GR	← (0, 5 ; 24)	GR	A	190.070 01	4.7	2376
* 7425	Q (2, 8 ; 25)	GR	← (1, 7 ; 25)	GR	A	190.120 64	0.4	6633

Index	upper state T (n, K ; J)	v	←	lower state (n, K ; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
7426	P (2, −6 ; 20)	GR	← (1, −5 ; 21)	GR	E	190.120 64	−5.0	6633
* 7427	P (3, 2 ; 28)	GR	← (3, 1 ; 29)	GR	E	190.140 94	0.2	792
* 7428	Q (2, 8 ; 24)	GR	← (1, 7 ; 24)	GR	A	190.170 87	−0.3	6534
* 7429	Q (2, 8 ; 23)	GR	← (1, 7 ; 23)	GR	A	190.218 78	−0.2	7029
* 7430	R (3, 4 ; 21)	GR	← (2, 5 ; 20)	GR	E	190.255 58	0.3	3069
* 7431	Q (2, 8 ; 22)	GR	← (1, 7 ; 22)	GR	A	190.264 18	1.0	6732
* 7432	Q (2, 8 ; 21)	GR	← (1, 7 ; 21)	GR	A	190.307 26	−0.2	7227
* 7433	P (1, 1 $^+$; 5)	GR	← (0, 2 $^-$; 6)	GR	A	190.337 93	−1.9	6930
* 7434	P (3, 1 ; 1)	GR	← (2, 0 ; 2)	GR	E	190.338 86	−0.5	3206
* 7435	Q (2, 8 ; 20)	GR	← (1, 7 ; 20)	GR	A	190.348 03	1.0	7326
* 7436	P (1, 1 $^-$; 5)	GR	← (0, 2 $^+$; 6)	GR	A	190.379 36	0.5	6831
7437	Q (2, 8 ; 19)	GR	← (1, 7 ; 19)	GR	A	190.387 05	5.4	7722
7438	R (2, 4 $^+$; 25)	GR	← (1, 3 $^-$; 24)	GR	A	190.387 05	−4.8	7722
7439	R (2, 4 ; 25)	GR	← (1, 3 $^-$; 24)	GR	A	190.387 05	−5.3	7722
* 7440	R (2, 4 $^-$; 25)	GR	← (1, 3 $^+$; 24)	GR	A	190.390 03	1.4	6237
* 7441	R (2, 4 ; 25)	GR	← (1, 3 $^+$; 24)	GR	A	190.390 03	0.3	6237
* 7442	R (2, −2 ; 19)	GR	← (1, −1 ; 18)	GR	E	190.393 72	0.6	6732
* 7443	P (1, 1 ; 1)	GR	← (0, 0 ; 2)	GR	E	190.402 76	−1.6	2871
* 7444	R (2, 4 ; 4)	GR	← (2, 3 ; 3)	GR	E	190.415 29	1.5	8415
* 7445	Q (2, 8 ; 18)	GR	← (1, 7 ; 18)	GR	A	190.422 77	0.7	0
7446	P (1, 7 ; 14)	GR	← (0, 8 ; 15)	GR	A	190.422 77	−5.2	0
* 7447	P (1, 3 ; 17)	GR	← (0, 4 ; 18)	GR	A	190.424 24	−0.4	0
* 7448	P (1, −3 ; 9)	GR	← (0, −2 ; 10)	GR	E	190.430 97	0.3	5049
* 7449	R (2, −1 ; 19)	GR	← (1, 0 ; 18)	GR	E	190.433 13	−0.1	3564
* 7450	P (1, 4 ; 17)	GR	← (0, 3 ; 18)	GR	E	190.449 10	−0.6	3168
* 7451	Q (2, 8 ; 17)	GR	← (1, 7 ; 17)	GR	A	190.456 72	1.2	7623
* 7452	Q (2, 8 ; 16)	GR	← (1, 7 ; 16)	GR	A	190.488 60	0.1	7821
* 7453	P (1, 5 ; 27)	GR	← (0, 4 $^+$; 28)	GR	A	190.506 15	2.6	891
* 7454	R (2, 5 ; 8)	GR	← (2, 4 ; 7)	GR	A	190.514 84	0.2	8415
* 7455	Q (2, 8 ; 15)	GR	← (1, 7 ; 15)	GR	A	190.518 31	−0.7	7920
* 7456	P (1, 5 ; 27)	GR	← (0, 4 $^-$; 28)	GR	A	190.533 69	1.0	1089
* 7457	Q (2, 8 ; 14)	GR	← (1, 7 ; 14)	GR	A	190.546 11	0.0	7821
* 7458	Q (2, 8 ; 13)	GR	← (1, 7 ; 13)	GR	A	190.571 82	0.4	7722
* 7459	R (1, 11 ; 28)	GR	← (1, 10 ; 27)	GR	A	190.593 56	0.1	4554
* 7460	Q (2, 8 ; 12)	GR	← (1, 7 ; 12)	GR	A	190.595 61	1.5	7326
* 7461	Q (2, 8 ; 11)	GR	← (1, 7 ; 11)	GR	A	190.617 29	−0.3	7425
* 7462	P (1, −2 ; 11)	GR	← (0, −3 ; 12)	GR	E	190.623 06	−0.2	6831
* 7463	P (1, 3 ; 19)	GR	← (0, 4 ; 20)	GR	E	190.637 08	3.1	7920
* 7464	Q (2, 8 ; 10)	GR	← (1, 7 ; 10)	GR	A	190.637 08	−0.1	7920
* 7465	R (1, −3 ; 18)	GR	← (0, −4 ; 17)	GR	E	190.648 53	0.2	4851
* 7466	Q (2, 8 ; 9)	GR	← (1, 7 ; 9)	GR	A	190.655 10	−0.5	6930
* 7467	P (1, 5 ; 25)	GR	← (0, 4 ; 26)	GR	E	190.665 00	0.0	3465
* 7468	Q (2, 8 ; 8)	GR	← (1, 7 ; 8)	GR	A	190.671 19	0.6	5643
* 7469	R (1, 6 ; 24)	GR	← (0, 7 ; 23)	GR	A	190.736 39	0.9	2178
7470	P (1, 8 ; 30)	GR	← (0, 7 ; 31)	GR	E	190.776 56	11.3	891
* 7471	P (1, 0 ; 8)	GR	← (0, −1 ; 9)	GR	E	190.796 25	0.0	4752
* 7472	R (1, 5 ; 11)	GR	← (0, 6 ; 10)	GR	E	190.899 38	2.5	1980
* 7473	R (2, −5 ; 21)	GR	← (1, −4 ; 20)	GR	E	190.954 50	−0.7	6336
* 7474	P (3, 0 ; 2)	GR	← (2, 1 ; 3)	GR	E	190.960 45	1.5	4059
* 7475	R (1, −6 ; 19)	GR	← (0, −7 ; 18)	GR	E	190.976 15	−0.9	2475
* 7476	R (3, −3 ; 23)	GR	← (2, −4 ; 22)	GR	E	190.997 51	1.8	3267
* 7477	R (1, 5 ; 22)	GR	← (0, 6 ; 21)	GR	A	191.017 12	−0.4	0
* 7478	R (2, 3 ; 24)	GR	← (1, 2 ; 23)	GR	E	191.064 30	0.2	6534
* 7479	P (2, 0 ; 19)	GR	← (1, −1 ; 20)	GR	E	191.116 93	−2.8	3960
* 7480	Q (1, 2 $^-$; 29)	GR	← (0, 1 $^-$; 29)	GR	A	191.143 25	0.6	6831
* 7481	P (1, 2 ; 3)	GR	← (0, 1 $^-$; 4)	GR	A	191.161 90	0.3	3564
* 7482	P (1, 2 $^+$; 3)	GR	← (0, 1 $^-$; 4)	GR	A	191.161 90	0.2	3564
* 7483	P (1, 0 ; 1)	GR	← (0, 1 ; 2)	GR	E	191.184 08	−0.9	5148
* 7484	R (2, −6 ; 18)	GR	← (2, −5 ; 17)	GR	E	191.254 21	2.8	9207
7485	P (1, 2 ; 31)	GR	← (0, 3 ; 32)	GR	E	191.323 40	−3.7	1089
* 7486	P (1, 4 ; 29)	GR	← (0, 5 ; 30)	GR	A	191.325 56	−0.2	2871
* 7487	R (1, 4 ; 22)	GR	← (0, 5 ; 21)	GR	E	191.367 07	2.4	8019
* 7488	P (1, 2 ; 3)	GR	← (0, 1 $^+$; 4)	GR	A	191.426 97	0.4	2772
* 7489	P (1, 2 $^-$; 3)	GR	← (0, 1 $^+$; 4)	GR	A	191.426 97	0.4	2772
* 7490	Q (1, 2 $^-$; 28)	GR	← (0, 1 $^-$; 28)	GR	A	191.489 95	1.0	5346
* 7491	R (1, 2 $^+$; 12)	GR	← (0, 3 $^-$; 11)	GR	A	191.494 96	−1.1	5148
* 7492	R (1, 2 $^-$; 12)	GR	← (0, 3 $^+$; 11)	GR	A	191.501 89	−0.5	4950
* 7493	P (3, 1 ; 3)	GR	← (2, 2 ; 4)	GR	A	191.518 60	−0.6	6039
* 7494	Q (1, 0 ; 31)	GR	← (0, 1 ; 31)	GR	E	191.539 03	0.9	2178
* 7495	P (1, 1 $^-$; 21)	GR	← (0, 0 $^+$; 22)	GR	A	191.574 86	0.1	4158
* 7496	P (1, −4 ; 28)	GR	← (0, −3 ; 29)	GR	E	191.665 81	−1.3	1683
* 7497	P (1, −7 ; 24)	GR	← (0, −6 ; 25)	GR	E	191.701 16	−1.4	1386
* 7498	Q (1, 0 ; 30)	GR	← (0, 1 ; 30)	GR	E	191.710 92	0.4	2277
* 7499	P (3, 2 ; 27)	GR	← (3, 1 ; 28)	GR	E	191.743 72	−0.5	1089
* 7500	P (2, −6 ; 19)	GR	← (1, −5 ; 20)	GR	E	191.771 77	0.8	2079

cm 1 2 3 4 5 6 7 8 unesp 12 13 14 15 16 17 18 19

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 7501	R (3, 4 ; 22) GR	←	(2, 5 ; 21) GR	E	191.789 72	0.6	2475
* 7502	R (1, 1 ; 3) GR	←	(0, 2 ; 2) GR	E	191.829 78	−0.6	1485
* 7503	Q (1, 2 − ; 27) GR	←	(0, 1 − ; 27) GR	A	191.837 72	1.5	5346
* 7504	P (1, 6 ; 22) GR	←	(0, 5 ; 23) GR	A	191.871 45	1.2	2277
* 7505	R (2, 4 ; 26) GR	←	(1, 3 − ; 25) GR	A	191.878 25	0.3	5742
* 7506	R (2, 4 + ; 26) GR	←	(1, 3 − ; 25) GR	A	191.878 25	0.3	5742
* 7507	R (2, 4 − ; 26) GR	←	(1, 3 + ; 25) GR	A	191.881 08	0.6	5742
* 7508	R (2, 4 ; 26) GR	←	(1, 3 + ; 25) GR	A	191.881 08	−0.3	5742
* 7509	Q (1, 0 ; 29) GR	←	(0, 1 ; 29) GR	E	191.882 02	−3.0	3707
* 7510	R (2, −2 ; 20) GR	←	(1, −1 ; 19) GR	E	191.911 18	−0.1	6831
* 7511	P (1, 1 + ; 4) GR	←	(0, 2 − ; 5) GR	A	191.940 28	−1.1	6831
* 7512	P (1, 1 − ; 4) GR	←	(0, 2 + ; 5) GR	A	191.968 51	0.0	6534
* 7513	R (2, 4 ; 5) GR	←	(2, 3 ; 4) GR	E	191.978 18	1.1	7227
* 7514	R (2, −1 ; 20) GR	←	(1, 0 ; 19) GR	E	191.981 39	−1.4	3168
* 7515	P (1, 7 ; 13) GR	←	(0, 8 ; 14) GR	A	192.044 92	−0.3	4356
7516	R (1, 6 ; 25) GR	←	(0, 7 ; 24) GR	A	192.051 79	5.7	3465
7517	Q (1, 0 ; 28) GR	←	(0, 1 ; 28) GR	E	192.051 79	−4.8	3465
* 7518	P (1, −3 ; 8) GR	←	(0, −2 ; 9) GR	E	192.059 23	−0.2	4554
* 7519	P (1, 3 ; 16) GR	←	(0, 4 ; 17) GR	A	192.067 12	0.2	5841
* 7520	R (2, 5 ; 9) GR	←	(2, 4 ; 8) GR	A	192.075 21	−0.5	8415
* 7521	R (1, 11 ; 29) GR	←	(1, 10 ; 28) GR	A	192.110 68	−0.1	3861
* 7522	R (1, −3 ; 19) GR	←	(0, −4 ; 18) GR	E	192.130 40	0.1	4752
* 7523	P (1, 4 ; 16) GR	←	(0, 3 ; 17) GR	E	192.133 11	−1.0	3663
* 7524	P (1, 5 ; 24) GR	←	(0, 4 ; 25) GR	E	192.181 16	0.4	3366
* 7525	Q (1, 2 − ; 26) GR	←	(0, 1 − ; 26) GR	A	192.184 97	−1.1	6237
* 7526	Q (1, 0 ; 27) GR	←	(0, 1 ; 27) GR	E	192.219 44	−0.6	3564
* 7527	P (1, −2 ; 10) GR	←	(0, −3 ; 11) GR	E	192.247 12	−0.2	6435
* 7528	P (1, 5 ; 26) GR	←	(0, 4 + ; 27) GR	A	192.268 92	−0.8	990
* 7529	P (1, 5 ; 26) GR	←	(0, 4 − ; 27) GR	A	192.289 82	−0.3	990
* 7530	P (1, 8 ; 29) GR	←	(0, 7 ; 30) GR	E	192.364 84	−2.2	1188
* 7531	P (1, 3 ; 18) GR	←	(0, 4 ; 19) GR	E	192.369 70	−0.6	4158
* 7532	Q (1, 0 ; 26) GR	←	(0, 1 ; 26) GR	E	192.382 89	0.4	4059
* 7533	P (1, 0 ; 7) GR	←	(0, −1 ; 8) GR	E	192.390 34	0.1	4554
* 7534	R (2, −3 ; 3) GR	←	(2, −2 ; 2) GR	E	192.440 89	0.3	7029
* 7535	R (1, 5 ; 12) GR	←	(0, 6 ; 11) GR	E	192.444 95	0.1	2079
* 7536	R (2, −5 ; 22) GR	←	(1, −4 ; 21) GR	E	192.447 04	0.0	6237
* 7537	R (1, −6 ; 20) GR	←	(0, −7 ; 19) GR	E	192.454 11	−1.0	2079
* 7538	R (1, 5 ; 23) GR	←	(0, 6 ; 22) GR	A	192.481 91	0.0	4059
* 7539	R (3, −3 ; 24) GR	←	(2, −4 ; 23) GR	E	192.526 36	0.2	3168
* 7540	Q (1, 2 − ; 25) GR	←	(0, 1 − ; 25) GR	A	192.530 67	2.0	7326
* 7541	P (3, 0 ; 1) GR	←	(2, 1 ; 2) GR	E	192.530 67	−3.0	7326
7542	Q (1, 0 ; 25) GR	←	(0, 1 ; 25) GR	E	192.541 76	−0.1	4455
* 7543	R (2, 3 ; 25) GR	←	(1, 2 ; 24) GR	E	192.563 34	1.4	5643
* 7544	Q (3, 1 ; 33) GR	←	(2, 0 ; 33) GR	E	192.625 25	0.0	1980
* 7545	Q (3, 1 ; 32) GR	←	(2, 0 ; 32) GR	E	192.679 26	−1.2	2178
* 7546	Q (1, 0 ; 24) GR	←	(0, 1 ; 24) GR	E	192.695 22	−0.6	5049
* 7547	Q (3, 1 ; 31) GR	←	(2, 0 ; 31) GR	E	192.730 98	−0.5	2376
* 7548	P (2, 0 ; 18) GR	←	(1, −1 ; 19) GR	E	192.733 02	1.3	2376
* 7549	P (1, 0 ; 0) GR	←	(0, 1 ; 1) GR	E	192.763 16	0.1	3960
* 7550	Q (3, 1 ; 30) GR	←	(2, 0 ; 30) GR	E	192.780 94	1.1	2871
* 7551	P (1, 2 + ; 2) GR	←	(0, 1 − ; 3) GR	A	192.801 68	−0.5	1782
* 7552	P (1, 2 ; 2) GR	←	(0, 1 − ; 3) GR	A	192.801 68	−0.6	1782
* 7553	P (1, 4 ; 28) GR	←	(0, 5 ; 29) GR	A	192.806 17	0.7	0
* 7554	R (2, −6 ; 19) GR	←	(2, −5 ; 18) GR	E	192.807 34	−0.4	6563
7555	R (1, 4 ; 23) GR	←	(0, 5 ; 22) GR	E	192.828 02	4.3	3762
* 7556	Q (3, 1 ; 29) GR	←	(2, 0 ; 29) GR	E	192.828 56	−0.6	3070
* 7557	Q (1, 0 ; 23) GR	←	(0, 1 ; 23) GR	E	192.842 62	0.9	5445
* 7558	Q (1, 2 − ; 24) GR	←	(0, 1 − ; 24) GR	A	192.872 22	0.3	6732
* 7559	Q (3, 1 ; 28) GR	←	(2, 0 ; 28) GR	E	192.874 54	1.3	3663
* 7560	Q (3, 1 ; 27) GR	←	(2, 0 ; 27) GR	E	192.918 30	0.0	4158
* 7561	Q (3, 1 ; 26) GR	←	(2, 0 ; 26) GR	E	192.960 45	−0.1	5148
7562	P (1, 2 − ; 2) GR	←	(0, 1 + ; 3) GR	A	192.960 45	−2.6	5148
* 7563	P (1, 2 ; 2) GR	←	(0, 1 + ; 3) GR	A	192.960 45	−3.3	5148
* 7564	Q (1, 0 ; 22) GR	←	(0, 1 ; 22) GR	E	192.983 20	0.3	5544
* 7565	Q (3, 1 ; 25) GR	←	(2, 0 ; 25) GR	E	193.000 50	0.1	4356
* 7566	R (1, 2 + ; 13) GR	←	(0, 3 − ; 12) GR	A	193.006 03	0.2	5742
* 7567	R (1, 2 − ; 13) GR	←	(0, 3 + ; 12) GR	A	193.016 03	0.3	5445
* 7568	Q (3, 1 ; 24) GR	←	(2, 0 ; 24) GR	E	193.038 85	1.5	4851
* 7569	Q (3, 1 ; 23) GR	←	(2, 0 ; 23) GR	E	193.075 41	0.9	5247
* 7570	P (3, 1 ; 2) GR	←	(2, 2 ; 3) GR	A	193.090 63	0.8	5940
* 7571	P (1, 1 − ; 20) GR	←	(0, 0 + ; 21) GR	A	193.098 61	1.0	3564
* 7572	Q (3, 1 ; 22) GR	←	(2, 0 ; 22) GR	E	193.110 16	0.4	5643
* 7573	Q (1, 0 ; 21) GR	←	(0, 1 ; 21) GR	E	193.116 68	−0.1	6237
* 7574	P (1, 2 ; 30) GR	←	(0, 3 ; 31) GR	E	193.134 81	−0.8	1386
* 7575	Q (3, 1 ; 21) GR	←	(2, 0 ; 21) GR	E	193.143 16	−0.6	5841
* 7576	Q (3, 1 ; 20) GR	←	(2, 0 ; 20) GR	E	193.174 53	0.6	6138
* 7577	Q (3, 1 ; 19) GR	←	(2, 0 ; 19) GR	E	193.204 21	0.1	6138
* 7578	Q (1, 2 − ; 23) GR	←	(0, 1 − ; 23) GR	A	193.209 19	0.0	7029
* 7579	Q (3, 1 ; 18) GR	←	(2, 0 ; 18) GR	E	193.232 24	0.6	6336
* 7580	Q (1, 0 ; 20) GR	←	(0, 1 ; 20) GR	E	193.242 76	−0.1	6534
* 7581	Q (3, 1 ; 17) GR	←	(2, 0 ; 17) GR	E	193.258 58	−0.3	6534
* 7582	P (1, −4 ; 27) GR	←	(0, −3 ; 28) GR	E	193.272 28	0.6	2079
* 7583	Q (3, 1 ; 16) GR	←	(2, 0 ; 16) GR	E	193.283 38	0.6	6633
* 7584	Q (3, 1 ; 15) GR	←	(2, 0 ; 15) GR	E	193.306 55	0.3	6831
* 7585	R (3, 4 ; 23) GR	←	(2, 5 ; 22) GR	E	193.322 01	−0.6	2673
* 7586	Q (3, 1 ; 14) GR	←	(2, 0 ; 14) GR	E	193.328 24	0.2	7128
* 7587	P (3, 2 ; 26) GR	←	(3, 1 ; 27) GR	E	193.345 83	−0.9	1782
7588	R (1, 6 ; 26) GR	←	(0, 7 ; 25) GR	A	193.348 28	6.4	7722
* 7589	Q (3, 1 ; 13) GR	←	(2, 0 ; 13) GR	E	193.348 28	−0.5	7722
* 7590	Q (1, 0 ; 19) GR	←	(0, 1 ; 19) GR	E	193.360 94	−0.9	7326
* 7591	R (2, 4 + ; 27) GR	←	(1, 3 − ; 26) GR	A	193.362 98	1.0	5247
* 7592	R (2, 4 ; 27) GR	←	(1, 3 − ; 26) GR	A	193.362 98	0.5	5247
* 7593	R (2, 4 ; 27) GR	←	(1, 3 + ; 26) GR	A	193.366 87	2.0	8118
* 7594	R (2, 4 − ; 27) GR	←	(1, 3 + ; 26) GR	A	193.366 87	0.9	8118
* 7595	Q (3, 1 ; 12) GR	←	(2, 0 ; 12) GR	E	193.366 87	−0.9	8118
* 7596	Q (3, 1 ; 11) GR	←	(2, 0 ; 11) GR	E	193.384 02	0.0	7128
7597	R (1, 1 ; 4) GR	←	(0, 2 ; 3) GR	E	193.386 78	−5.7	4158
* 7598	Q (3, 1 ; 10) GR	←	(2, 0 ; 10) GR	E	193.399 69	−0.6	7524
* 7599	Q (3, 1 ; 9) GR	←	(2, 0 ; 9) GR	E	193.413 96	1.6	7821
7600	P (2, −6 ; 18) GR	←	(1, −5 ; 19) GR	E	193.413 96	−11.0	7821
* 7601	R (2, −2 ; 21) GR	←	(1, −1 ; 20) GR	E	193.424 68	−1.3	7029
* 7602	Q (3, 1 ; 8) GR	←	(2, 0 ; 8) GR	E	193.426 51	−0.1	7029
* 7603	Q (1, 1 ; 10) GR	←	(0, 0 ; 10) GR	E	193.436 27	1.1	8712
7604	Q (3, 1 ; 7) GR	←	(2, 0 ; 7) GR	E	193.438 36	5.1	9702
* 7605	Q (1, 1 ; 11) GR	←	(0, 0 ; 11) GR	E	193.438 36	−0.6	9702
* 7606	Q (1, 1 ; 9) GR	←	(0, 0 ; 9) GR	E	193.441 30	−0.3	8415
* 7607	Q (3, 1 ; 6) GR	←	(2, 0 ; 6) GR	E	193.447 70	0.6	7821
7608	P (1, −7 ; 23) GR	←	(0, −6 ; 24) GR	E	193.450 23	9.3	8811
* 7609	Q (1, 1 ; 12) GR	←	(0, 0 ; 12) GR	E	193.450 23	−2.1	8811
* 7610	Q (1, 1 ; 8) GR	←	(0, 0 ; 8) GR	E	193.452 13	−1.0	8316
* 7611	Q (3, 1 ; 5) GR	←	(2, 0 ; 5) GR	E	193.456 10	0.6	6534
* 7612	Q (3, 1 ; 4) GR	←	(2, 0 ; 4) GR	E	193.462 90	−0.1	0
* 7613	Q (1, 1 ; 7) GR	←	(0, 0 ; 7) GR	E	193.466 92	0.1	8019
* 7614	Q (3, 1 ; 3) GR	←	(2, 0 ; 3) GR	E	193.468 51	−0.1	0
* 7615	Q (1, 0 ; 18) GR	←	(0, 1 ; 18) GR	E	193.471 92	2.0	8217
7616	Q (3, 1 ; 2) GR	←	(2, 0 ; 2) GR	E	193.473 37	5.4	0
* 7617	Q (1, 1 ; 13) GR	←	(0, 0 ; 13) GR	E	193.473 37	−2.8	9207
* 7618	Q (3, 1 ; 1) GR	←	(2, 0 ; 1) GR	E	193.475 67	1.1	0
* 7619	Q (1, 1 ; 6) GR	←	(0, 0 ; 6) GR	E	193.483 67	0.2	7920
* 7620	Q (1, 1 ; 5) GR	←	(0, 0 ; 5) GR	E	193.500 96	−0.1	7920
* 7621	Q (1, 1 ; 14) GR	←	(0, 0 ; 14) GR	E	193.510 18	0.2	8415
* 7622	Q (1, 1 ; 4) GR	←	(0, 0 ; 4) GR	E	193.517 47	−0.4	6930
* 7623	R (2, −1 ; 21) GR	←	(1, 0 ; 20) GR	E	193.530 30	−1.2	3267
* 7624	Q (1, 1 ; 3) GR	←	(0, 0 ; 3) GR	E	193.532 16	0.3	6633
7625	P (1, 1 + ; 3) GR	←	(0, 2 ; 4) GR	A	193.537 30	5.7	7128
* 7626	P (1, 1 + ; 3) GR	←	(0, 2 − ; 4) GR	A	193.537 30	−0.5	7128
* 7627	Q (1, 2 − ; 22) GR	←	(0, 1 − ; 22) GR	A	193.539 98	1.7	9207
* 7628	R (2, 4 ; 6) GR	←	(2, 3 ; 5) GR	E	193.539 98	−3.0	9207
* 7629	Q (1, 1 ; 2) GR	←	(0, 0 ; 2) GR	E	193.544 02	1.1	6930
* 7630	Q (1, 1 ; 1) GR	←	(0, 0 ; 1) GR	E	193.552 18	0.5	5544
* 7631	P (1, 1 − ; 3) GR	←	(0, 2 + ; 4) GR	A	193.554 63	0.7	6831
* 7632	P (1, 1 − ; 3) GR	←	(0, 2 ; 4) GR	A	193.554 63	−3.3	6831
* 7633	Q (1, 1 ; 15) GR	←	(0, 0 ; 15) GR	E	193.561 64	0.5	8118
* 7634	Q (1, 0 ; 17) GR	←	(0, 1 ; 17) GR	E	193.574 54	0.6	7425
* 7635	R (1, −3 ; 20) GR	←	(0, −4 ; 19) GR	E	193.606 16	0.5	4455
* 7636	R (1, 11 ; 30) GR	←	(1, 10 ; 29) GR	A	193.622 87	−0.2	3366
* 7637	Q (1, 1 ; 16) GR	←	(0, 0 ; 16) GR	E	193.629 39	−0.3	8316
* 7638	R (2, 5 ; 10) GR	←	(2, 4 ; 9) GR	A	193.634 41	−0.9	8514
* 7639	P (1, 6 ; 21) GR	←	(0, 5 ; 22) GR	A	193.654 95	−0.9	2475
* 7640	P (1, 7 ; 12) GR	←	(0, 8 ; 13) GR	A	193.663 40	−0.7	5049
* 7641	Q (1, 0 ; 16) GR	←	(0, 1 ; 16) GR	E	193.669 56	−0.4	7326
* 7642	P (1, −3 ; 7) GR	←	(0, −2 ; 8) GR	E	193.678 88	−0.7	4257
* 7643	P (1, 3 ; 15) GR	←	(0, 4 ; 16) GR	A	193.705 44	0.3	5841
* 7644	P (1, 5 ; 23) GR	←	(0, 4 ; 24) GR	E	193.707 76	0.7	4257
* 7645	Q (1, 1 ; 17) GR	←	(0, 0 ; 17) GR	E	193.714 53	−0.8	8118
* 7646	Q (1, 0 ; 15) GR	←	(0, 1 ; 15) GR	E	193.757 02	−0.7	7623
* 7647	P (1, 4 ; 15) GR	←	(0, 3 ; 16) GR	E	193.806 84	0.2	3366
* 7648	Q (1, 1 ; 18) GR	←	(0, 0 ; 18) GR	E	193.818 15	−0.5	7821
* 7649	Q (1, 0 ; 14) GR	←	(0, 1 ; 14) GR	E	193.837 16	−0.1	7425
* 7650	Q (1, 2 − ; 21) GR	←	(0, 1 − ; 21) GR	A	193.863 03	−0.1	7722



Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 7651	P (1, −2 ; 9)	GR	(0, −3 ; 10)	GR	E	193.865 86	−1.1	7227
* 7652	Q (1, 0 ; 13)	GR	(0, 1 ; 13)	GR	E	193.910 17	−0.7	7920
* 7653	R (1, −6 ; 21)	GR	(0, −7 ; 20)	GR	E	193.926 48	−1.1	2277
* 7654	R (2, −5 ; 23)	GR	(1, −4 ; 22)	GR	E	193.932 64	−0.1	6237
* 7655	Q (1, 1 ; 19)	GR	(0, 0 ; 19)	GR	E	193.940 83	0.1	8118
* 7656	R (1, 5 ; 24)	GR	(0, 6 ; 23)	GR	A	193.940 83	−1.0	8118
* 7657	P (1, 8 ; 28)	GR	(0, 7 ; 29)	GR	E	193.956 22	0.3	1089
* 7658	Q (1, 0 ; 12)	GR	(0, 1 ; 12)	GR	E	193.976 38	0.6	8019
* 7659	P (1, 0 ; 6)	GR	(0, −1 ; 7)	GR	E	193.984 17	1.1	5049
* 7660	R (1, 5 ; 13)	GR	(0, 6 ; 12)	GR	E	193.992 39	−0.6	1980
* 7661	R (2, −3 ; 4)	GR	(2, −2 ; 3)	GR	E	194.004 78	−0.6	6732
* 7662	P (1, 5 ; 25)	GR	(0, 4 $^{+}$; 26)	GR	A	194.019 66	2.1	1287
7663	P (1, 5 ; 25)	GR	(0, 4 $^{-}$; 26)	GR	A	194.035 98	9.5	7920
* 7664	Q (1, 0 ; 11)	GR	(0, 1 ; 11)	GR	E	194.035 98	−0.4	7920
* 7665	R (3, −3 ; 25)	GR	(2, −4 ; 24)	GR	E	194.053 22	−0.8	2871
* 7666	R (2, 3 ; 26)	GR	(1, 2 ; 25)	GR	E	194.057 37	−0.5	6039
* 7667	Q (1, 1 ; 20)	GR	(0, 0 ; 20)	GR	E	194.082 91	−0.3	7920
* 7668	P (1, 3 ; 17)	GR	(0, 4 ; 18)	GR	E	194.087 27	0.1	5247
* 7669	Q (1, 0 ; 10)	GR	(0, 1 ; 10)	GR	E	194.089 54	0.0	8019
* 7670	Q (1, 0 ; 9)	GR	(0, 1 ; 9)	GR	E	194.137 00	−0.1	8019
7671	Q (1, 2 $^{-}$; 20)	GR	(0, 1 $^{-}$; 20)	GR	A	194.178 30	5.1	8910
7672	Q (1, 0 ; 8)	GR	(0, 1 ; 8)	GR	E	194.178 30	−6.1	8910
* 7673	Q (1, −4 ; 29)	GR	(0, −5 ; 29)	GR	E	194.204 82	0.9	1089
* 7674	Q (1, 0 ; 7)	GR	(0, 1 ; 7)	GR	E	194.215 42	−0.3	7722
* 7675	Q (1, 1 ; 21)	GR	(0, 0 ; 21)	GR	E	194.244 53	−0.2	7920
* 7676	Q (1, 0 ; 6)	GR	(0, 1 ; 6)	GR	E	194.246 83	−0.4	8019
* 7677	Q (1, −4 ; 28)	GR	(0, −5 ; 28)	GR	E	194.260 09	−0.7	1683
* 7678	Q (1, 0 ; 5)	GR	(0, 1 ; 5)	GR	E	194.273 33	−0.2	7425
* 7679	R (1, 4 ; 24)	GR	(0, 5 ; 23)	GR	E	194.282 06	0.5	3960
* 7680	Q (1, 0 ; 4)	GR	(0, 1 ; 4)	GR	E	194.295 37	2.2	7524
7681	P (1, 4 ; 27)	GR	(0, 5 ; 28)	GR	A	194.295 37	−8.8	7524
* 7682	Q (1, 0 ; 3)	GR	(0, 1 ; 3)	GR	E	194.312 37	−0.2	6534
* 7683	Q (1, −4 ; 27)	GR	(0, −5 ; 27)	GR	E	194.317 00	1.5	2574
* 7684	Q (1, 0 ; 2)	GR	(0, 1 ; 2)	GR	E	194.325 13	−0.6	6435
* 7685	Q (1, 0 ; 1)	GR	(0, 1 ; 1)	GR	E	194.333 69	0.0	4950
* 7686	P (2, 0 ; 17)	GR	(1, −1 ; 18)	GR	E	194.345 87	−0.5	2376
* 7687	R (2, −6 ; 20)	GR	(2, −5 ; 19)	GR	E	194.359 54	0.8	5742
* 7688	Q (1, −4 ; 26)	GR	(0, −5 ; 26)	GR	E	194.374 55	−0.1	2079
* 7689	Q (1, 1 ; 22)	GR	(0, 0 ; 22)	GR	E	194.425 74	0.5	7425
* 7690	Q (1, −4 ; 25)	GR	(0, −5 ; 25)	GR	E	194.433 02	0.0	1683
* 7691	Q (1, 2 $^{-}$; 19)	GR	(0, 1 $^{-}$; 19)	GR	A	194.482 95	0.8	7722
* 7692	Q (1, −4 ; 24)	GR	(0, −5 ; 24)	GR	E	194.491 76	−2.6	1961
* 7693	R (1, 2 $^{+}$; 14)	GR	(0, 3 $^{-}$; 13)	GR	A	194.510 35	−0.1	5247
* 7694	R (1, 2 $^{-}$; 14)	GR	(0, 3 $^{+}$; 13)	GR	A	194.524 35	−0.7	5148
* 7695	Q (1, −4 ; 23)	GR	(0, −5 ; 23)	GR	E	194.551 30	0.5	2277
* 7696	Q (1, −4 ; 22)	GR	(0, −5 ; 22)	GR	E	194.610 55	0.3	2574
7697	R (1, 6 ; 27)	GR	(0, 7 ; 26)	GR	A	194.624 44	−5.6	1910
* 7698	Q (1, 1 ; 23)	GR	(0, 0 ; 23)	GR	E	194.625 87	−3.3	6567
* 7699	P (1, 1 $^{-}$; 19)	GR	(0, 0 $^{+}$; 20)	GR	A	194.632 06	−0.5	4059
* 7700	P (3, 1 ; 1)	GR	(2, 2 ; 2)	GR	A	194.661 19	−0.9	5643
* 7701	Q (1, −4 ; 21)	GR	(0, −5 ; 21)	GR	E	194.669 48	−0.4	2871
* 7702	Q (1, −4 ; 20)	GR	(0, −5 ; 20)	GR	E	194.727 79	−0.8	3069
* 7703	Q (1, 2 $^{-}$; 18)	GR	(0, 1 $^{-}$; 18)	GR	A	194.777 61	0.8	7722
* 7704	Q (1, −4 ; 19)	GR	(0, −5 ; 19)	GR	E	194.785 51	0.0	3366
* 7705	R (2, 4 ; 28)	GR	(1, 3 $^{-}$; 27)	GR	A	194.841 99	0.3	6534
* 7706	R (2, 4 $^{+}$; 28)	GR	(1, 3 $^{-}$; 27)	GR	A	194.841 99	0.0	6534
* 7707	Q (1, −4 ; 18)	GR	(0, −5 ; 18)	GR	E	194.841 99	−1.2	6534
* 7708	Q (1, 1 ; 24)	GR	(0, 0 ; 24)	GR	E	194.846 20	1.4	8415
* 7709	R (2, 4 $^{-}$; 28)	GR	(1, 3 $^{+}$; 27)	GR	A	194.846 20	−1.0	8415
* 7710	R (2, 4 ; 28)	GR	(1, 3 $^{+}$; 27)	GR	A	194.846 20	−2.6	8415
* 7711	R (3, 4 ; 24)	GR	(2, 5 ; 23)	GR	E	194.852 38	−0.6	2178
* 7712	P (1, −4 ; 26)	GR	(0, −3 ; 27)	GR	E	194.882 21	−1.4	2376
* 7713	Q (1, −4 ; 17)	GR	(0, −5 ; 17)	GR	E	194.897 16	0.2	3861
* 7714	R (2, −2 ; 22)	GR	(1, −1 ; 21)	GR	E	194.934 20	−0.2	6336
* 7715	P (1, 2 ; 29)	GR	(0, 3 ; 30)	GR	E	194.934 20	−1.2	6336
* 7716	R (1, 1 ; 5)	GR	(0, 2 ; 4)	GR	E	194.940 04	0.9	3168
* 7717	P (3, 2 ; 25)	GR	(3, 1 ; 26)	GR	E	194.946 67	−1.9	1089
* 7718	Q (1, −4 ; 16)	GR	(0, −5 ; 16)	GR	E	194.950 74	−0.7	3960
* 7719	Q (3, 0 ; 30)	GR	(2, 1 ; 30)	GR	E	194.955 77	−1.6	2178
* 7720	P (3, −1 ; 26)	GR	(3, 0 ; 27)	GR	E	194.993 07	−0.7	990
* 7721	Q (1, −4 ; 15)	GR	(0, −5 ; 15)	GR	E	195.002 54	0.5	4158
* 7722	Q (3, 0 ; 29)	GR	(2, 1 ; 29)	GR	E	195.004 21	0.3	3069
* 7723	R (3, 1 ; 1)	GR	(2, 0 ; 0)	GR	E	195.043 83	−0.6	2970
* 7724	Q (3, 0 ; 28)	GR	(2, 1 ; 28)	GR	E	195.050 02	2.6	3366
7725	P (2, −6 ; 17)	GR	(1, −5 ; 18)	GR	E	195.052 06	5.1	5346

Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 7726	Q (1, −4 ; 14)	GR	(0, −5 ; 14)	GR	E	195.052 06	−1.3	5346
* 7727	Q (1, 2 $^{-}$; 17)	GR	(0, 1 $^{-}$; 17)	GR	A	195.060 91	0.3	7425
* 7728	R (1, −3 ; 21)	GR	(0, −4 ; 20)	GR	E	195.075 66	0.5	4455
* 7729	R (2, −1 ; 22)	GR	(1, 0 ; 21)	GR	E	195.080 16	−0.7	3465
* 7730	Q (1, 1 ; 25)	GR	(0, 0 ; 25)	GR	E	195.084 47	0.0	6930
* 7731	Q (3, 0 ; 27)	GR	(2, 1 ; 27)	GR	E	195.094 42	0.5	3564
* 7732	Q (1, −4 ; 13)	GR	(0, −5 ; 13)	GR	E	195.099 47	−1.5	4926
* 7733	R (2, 4 ; 7)	GR	(2, 3 ; 6)	GR	E	195.101 08	0.8	7328
* 7734	R (1, 1 ; 1)	GR	(0, 0 ; 0)	GR	E	195.126 84	−0.3	4752
* 7735	P (1, 1 $^{+}$; 2)	GR	(0, 2 ; 3)	GR	A	195.129 05	3.4	7326
* 7736	P (1, 1 $^{+}$; 2)	GR	(0, 2 $^{-}$; 3)	GR	A	195.129 05	1.0	7326
7737	R (1, 11 ; 31)	GR	(1, 10 ; 30)	GR	A	195.129 05	−5.7	7326
* 7738	Q (3, 0 ; 26)	GR	(2, 1 ; 26)	GR	E	195.137 48	2.0	7623
* 7739	P (1, 1 $^{-}$; 2)	GR	(0, 2 $^{+}$; 3)	GR	A	195.137 48	−1.6	7623
* 7740	P (1, 1 $^{-}$; 2)	GR	(0, 2 ; 3)	GR	A	195.137 48	−2.7	7623
* 7741	Q (1, −4 ; 12)	GR	(0, −5 ; 12)	GR	E	195.144 47	0.3	4653
* 7742	Q (3, 0 ; 25)	GR	(2, 1 ; 25)	GR	E	195.177 56	−1.7	4257
* 7743	P (1, −7 ; 22)	GR	(0, −6 ; 23)	GR	E	195.184 38	−1.2	1881
* 7744	Q (1, −4 ; 11)	GR	(0, −5 ; 11)	GR	E	195.186 70	−1.0	4356
* 7745	R (2, 5 ; 11)	GR	(2, 4 ; 10)	GR	A	195.192 50	0.4	8712
* 7746	Q (3, 0 ; 24)	GR	(2, 1 ; 24)	GR	E	195.216 55	0.7	4455
* 7747	Q (1, −4 ; 10)	GR	(0, −5 ; 10)	GR	E	195.226 08	0.2	4158
* 7748	P (1, 5 ; 22)	GR	(0, 4 ; 23)	GR	E	195.244 39	−0.3	3861
* 7749	Q (3, 0 ; 23)	GR	(2, 1 ; 23)	GR	E	195.253 78	−0.1	5049
* 7750	Q (1, −4 ; 9)	GR	(0, −5 ; 9)	GR	E	195.262 29	−0.9	4158
* 7751	P (1, 7 ; 11)	GR	(0, 8 ; 12)	GR	A	195.278 61	−0.8	4653
* 7752	Q (3, 0 ; 22)	GR	(2, 1 ; 22)	GR	E	195.289 12	−0.2	5841
* 7753	P (1, −3 ; 6)	GR	(0, −2 ; 7)	GR	E	195.290 79	−0.2	3465
* 7754	Q (1, −4 ; 8)	GR	(0, −5 ; 8)	GR	E	195.295 45	−0.9	4257
* 7755	Q (3, 0 ; 21)	GR	(2, 1 ; 21)	GR	E	195.322 94	−1.3	5841
* 7756	Q (1, −4 ; 7)	GR	(0, −5 ; 7)	GR	E	195.325 31	0.0	4158
* 7757	Q (1, 2 $^{-}$; 16)	GR	(0, 1 $^{-}$; 16)	GR	A	195.332 13	−0.3	7722
* 7758	P (1, 3 ; 14)	GR	(0, 4 ; 15)	GR	A	195.339 42	−0.1	6039
* 7759	Q (1, 1 ; 26)	GR	(0, 0 ; 26)	GR	E	195.341 20	−0.4	6336
* 7760	Q (1, −4 ; 6)	GR	(0, −5 ; 6)	GR	E	195.351 49	−1.0	2970
* 7761	Q (3, 0 ; 20)	GR	(2, 1 ; 20)	GR	E	195.355 18	1.5	5544
* 7762	Q (1, −4 ; 5)	GR	(0, −5 ; 5)	GR	E	195.374 44	0.3	2178
* 7763	Q (3, 0 ; 19)	GR	(2, 1 ; 19)	GR	E	195.385 59	−0.6	5841
7764	R (1, −6 ; 22)	GR	(0, −7 ; 21)	GR	E	195.393 54	4.7	3311
* 7765	R (1, 5 ; 25)	GR	(0, 6 ; 24)	GR	A	195.394 05	−1.6	3762
* 7766	R (2, −5 ; 24)	GR	(1, −4 ; 23)	GR	E	195.411 33	1.0	5742
* 7767	Q (3, 0 ; 18)	GR	(2, 1 ; 18)	GR	E	195.414 41	0.4	6336
* 7768	P (1, 6 ; 20)	GR	(0, 5 ; 21)	GR	A	195.420 99	−1.1	2673
* 7769	Q (3, 0 ; 17)	GR	(2, 1 ; 17)	GR	E	195.441 61	−1.2	6336
* 7770	Q (3, 0 ; 16)	GR	(2, 1 ; 16)	GR	E	195.467 24	1.0	6534
* 7771	P (1, 4 ; 14)	GR	(0, 3 ; 15)	GR	E	195.470 87	1.2	3366
* 7772	P (1, −2 ; 8)	GR	(0, −3 ; 9)	GR	E	195.479 83	−0.3	6831
* 7773	Q (3, 0 ; 15)	GR	(2, 1 ; 15)	GR	E	195.491 34	0.7	7821
* 7774	Q (3, 0 ; 14)	GR	(2, 1 ; 14)	GR	E	195.513 60	−0.5	6534
* 7775	Q (3, 0 ; 13)	GR	(2, 1 ; 13)	GR	E	195.534 48	−0.5	6534
* 7776	R (1, 5 ; 14)	GR	(0, 6 ; 13)	GR	E	195.542 37	0.3	2574
* 7777	R (2, 3 ; 27)	GR	(1, 2 ; 26)	GR	E	195.546 35	1.3	5742
* 7778	P (1, 8 ; 27)	GR	(0, 7 ; 28)	GR	E	195.548 93	0.1	1584
* 7779	Q (3, 0 ; 12)	GR	(2, 1 ; 12)	GR	E	195.553 84	0.9	6633
* 7780	R (2, −3 ; 5)	GR	(2, −2 ; 4)	GR	E	195.567 40	−0.2	7227
* 7781	Q (3, 0 ; 11)	GR	(2, 1 ; 11)	GR	E	195.571 68	0.5	7029
* 7782	P (1, 0 ; 5)	GR	(0, −1 ; 6)	GR	E	195.576 66	0.3	4851
* 7783	R (3, −3 ; 26)	GR	(2, −4 ; 25)	GR	E	195.577 60	−0.7	3158
* 7784	Q (3, 0 ; 10)	GR	(2, 1 ; 10)	GR	E	195.587 94	0.0	7326
* 7785	Q (1, 2 $^{-}$; 15)	GR	(0, 1 $^{-}$; 15)	GR	A	195.590 53	0.1	8316
* 7786	Q (3, 0 ; 9)	GR	(2, 1 ; 9)	GR	E	195.602 63	0.1	6534
* 7787	Q (1, 1 ; 27)	GR	(0, 0 ; 27)	GR	E	195.615 81	0.6	7722
* 7788	Q (3, 0 ; 8)	GR	(2, 1 ; 8)	GR	E	195.615 81	−0.8	7722
* 7789	Q (3, 0 ; 7)	GR	(2, 1 ; 7)	GR	E	195.627 63	−0.5	6435
* 7790	Q (3, 0 ; 6)	GR	(2, 1 ; 6)	GR	E	195.637 91	−0.2	6336
* 7791	Q (3, 0 ; 5)	GR	(2, 1 ; 5)	GR	E	195.646 67	−0.1	6237
* 7792	Q (3, 0 ; 4)	GR	(2, 1 ; 4)	GR	E	195.654 03	−0.5	5544
* 7793	Q (3, 0 ; 3)	GR	(2, 1 ; 3)	GR	E	195.659 94	1.3	5247
* 7794	Q (3, 0 ; 2)	GR	(2, 1 ; 2)	GR	E	195.664 33	1.6	4851
* 7795	Q (3, 0 ; 1)	GR	(2, 1 ; 1)	GR	E	195.666 95	0.0	5247
* 7796	Q (1, 1 $^{+}$; 30)	GR	(0, 2 $^{+}$; 30)	GR	A	195.666 95	−0.1	5247
* 7797	R (1, 4 ; 25)	GR	(0, 5 ; 24)	GR	E	195.730 22	−2.0	3267
* 7798	P (1, 5 ; 24)	GR	(0, 4 $^{+}$; 25)	GR	A	195.757 92	−0.1	1584
* 7799	P (1, 5 ; 24)	GR	(0, 4 $^{-}$; 25)	GR	A	195.769 79	2.5	2673
* 7800	P (1, 3 ; 16)	GR	(0, 4 ; 17)	GR	E	195.789 99	0.4	5445



Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 7801	P (1, 4 ; 26)	GR ← (0, 5 ; 27)	GR	A	195.796 06	−1.9	4653
* 7802	Q (1, 2 − ; 14)	GR ← (0, 1 − ; 14)	GR	A	195.835 54	0.6	8316
* 7803	R (1, 6 ; 28)	GR ← (0, 7 ; 27)	GR	A	195.883 76	1.0	1386
* 7804	Q (1, 1 ; 28)	GR ← (0, 0 ; 28)	GR	E	195.907 53	0.3	6039
* 7805	R (2, −6 ; 21)	GR ← (2, −5 ; 20)	GR	E	195.910 13	0.5	5742
* 7806	P (2, 0 ; 16)	GR ← (1, −1 ; 17)	GR	E	195.956 17	−1.3	2574
* 7807	R (1, 2 + ; 15)	GR ← (0, 3 − ; 14)	GR	A	196.007 64	0.0	5346
* 7808	Q (1, 1 + ; 29)	GR ← (0, 2 + ; 29)	GR	A	196.010 44	−0.6	2970
* 7809	R (1, 2 − ; 15)	GR ← (0, 3 + ; 14)	GR	A	196.026 94	−0.7	5445
* 7810	Q (1, 2 − ; 13)	GR ← (0, 1 − ; 13)	GR	A	196.066 41	0.2	8217
* 7811	P (1, 1 − ; 18)	GR ← (0, 0 + ; 19)	GR	A	196.174 51	−0.1	4158
* 7812	Q (1, 1 ; 29)	GR ← (0, 0 ; 29)	GR	E	196.216 35	0.3	6435
* 7813	Q (1, 2 − ; 12)	GR ← (0, 1 − ; 12)	GR	A	196.282 75	0.3	7920
* 7814	R (2, 4 ; 29)	GR ← (1, 3 − ; 28)	GR	A	196.314 93	1.2	4554
* 7815	R (2, 4 + ; 29)	GR ← (1, 3 − ; 28)	GR	A	196.314 93	0.6	4554
* 7816	R (2, 4 − ; 29)	GR ← (1, 3 + ; 28)	GR	A	196.320 31	0.0	4455
* 7817	R (2, 4 ; 29)	GR ← (1, 3 + ; 28)	GR	A	196.320 31	−1.2	4455
* 7818	Q (1, 1 + ; 28)	GR ← (0, 2 + ; 28)	GR	A	196.336 00	−0.3	3366
* 7819	R (3, 4 ; 25)	GR ← (2, 5 ; 24)	GR	E	196.381 20	1.1	1980
* 7820	R (2, −2 ; 23)	GR ← (1, −1 ; 22)	GR	E	196.439 44	0.7	6435
* 7821	Q (1, 2 − ; 11)	GR ← (0, 1 − ; 11)	GR	A	196.484 12	−0.3	7821
* 7822	R (1, 1 ; 6)	GR ← (0, 2 ; 5)	GR	E	196.487 10	−0.6	3960
* 7823	P (1, −4 ; 25)	GR ← (0, −3 ; 26)	GR	E	196.495 79	0.6	3168
* 7824	R (1, −3 ; 22)	GR ← (0, −4 ; 21)	GR	E	196.538 57	0.5	4455
* 7825	Q (1, 1 ; 30)	GR ← (0, 0 ; 30)	GR	E	196.541 17	−0.3	4851
* 7826	P (3, 2 ; 24)	GR ← (3, 1 ; 25)	GR	E	196.547 29	0.5	1584
* 7827	P (3, −1 ; 25)	GR ← (3, 0 ; 26)	GR	E	196.596 37	1.4	1287
* 7828	R (2, 6 ; 6)	GR ← (1, 5 ; 5)	GR	E	196.598 47	0.4	6039
* 7829	R (3, 1 ; 2)	GR ← (2, 0 ; 1)	GR	E	196.609 37	−1.0	3861
* 7830	R (2, −1 ; 23)	GR ← (1, 0 ; 22)	GR	E	196.631 13	0.9	4059
* 7831	R (1, 11 ; 32)	GR ← (1, 10 ; 31)	GR	A	196.631 13	0.6	4059
* 7832	Q (1, 1 + ; 27)	GR ← (0, 2 + ; 27)	GR	A	196.643 52	0.5	3861
* 7833	R (2, 4 ; 8)	GR ← (2, 3 ; 7)	GR	E	196.660 49	−0.9	8415
* 7834	Q (1, 2 − ; 10)	GR ← (0, 1 − ; 10)	GR	A	196.669 97	−0.1	8019
* 7835	P (2, −6 ; 16)	GR ← (1, −5 ; 17)	GR	E	196.681 89	1.2	2475
* 7836	R (1, 1 ; 2)	GR ← (0, 0 ; 1)	GR	E	196.693 10	−0.1	4950
* 7837	P (1, 1 + ; 1)	GR ← (0, 2 − ; 2)	GR	A	196.714 99	−0.5	6039
* 7838	P (1, 1 + ; 1)	GR ← (0, 2 ; 2)	GR	A	196.714 99	−1.0	6039
* 7839	P (1, 1 − ; 1)	GR ← (0, 2 + ; 2)	GR	A	196.717 89	0.0	6237
* 7840	P (1, 1 − ; 1)	GR ← (0, 2 ; 2)	GR	A	196.717 89	−1.2	6237
7841	P (1, 2 ; 28)	GR ← (0, 3 ; 29)	GR	E	196.722 20	4.6	2475
* 7842	R (2, 5 ; 12)	GR ← (2, 4 ; 11)	GR	A	196.749 28	−0.2	8613
* 7843	P (1, 5 ; 21)	GR ← (0, 4 ; 22)	GR	E	196.790 73	−0.3	4257
* 7844	Q (1, 2 − ; 9)	GR ← (0, 1 − ; 9)	GR	A	196.840 03	0.2	8019
* 7845	R (1, 5 ; 26)	GR ← (0, 6 ; 25)	GR	A	196.841 91	1.3	4059
* 7846	R (1, −6 ; 23)	GR ← (0, −7 ; 22)	GR	E	196.853 79	0.1	1782
* 7847	Q (1, 1 ; 31)	GR ← (0, 0 ; 31)	GR	E	196.882 24	0.7	6732
* 7848	R (2, −5 ; 25)	GR ← (1, −4 ; 24)	GR	E	196.882 24	−0.3	6732
* 7849	P (1, 7 ; 10)	GR ← (0, 8 ; 11)	GR	A	196.890 69	−1.0	4752
* 7850	P (1, −3 ; 5)	GR ← (0, −2 ; 6)	GR	E	196.895 71	−0.6	2673
* 7851	P (1, −7 ; 21)	GR ← (0, −6 ; 22)	GR	E	196.907 70	0.9	1584
* 7852	Q (1, 1 + ; 26)	GR ← (0, 2 + ; 26)	GR	A	196.933 19	0.8	5346
* 7853	P (1, 3 ; 13)	GR ← (0, 4 ; 14)	GR	A	196.969 21	−0.2	5643
7854	Q (1, 2 ; 8)	GR ← (0, 1 − ; 8)	GR	A	196.994 00	4.7	7821
* 7855	Q (1, 2 − ; 8)	GR ← (0, 1 − ; 8)	GR	A	196.994 00	−0.2	7821
* 7856	R (2, 3 ; 28)	GR ← (1, 2 ; 27)	GR	E	197.029 86	1.5	5049
* 7857	P (1, −2 ; 7)	GR ← (0, −3 ; 8)	GR	E	197.088 93	−0.3	6831
* 7858	R (1, 5 ; 15)	GR ← (0, 6 ; 14)	GR	E	197.095 45	−0.4	2079
* 7859	R (3, −3 ; 27)	GR ← (2, −4 ; 26)	GR	E	197.099 94	1.2	2376
* 7860	R (1, 6 ; 29)	GR ← (0, 7 ; 28)	GR	A	197.123 45	0.0	1683
* 7861	P (1, 4 ; 13)	GR ← (0, 3 ; 14)	GR	E	197.125 70	0.6	4059
* 7862	R (2, −3 ; 6)	GR ← (2, −2 ; 5)	GR	E	197.128 57	0.2	7029
* 7863	Q (1, 2 ; 7)	GR ← (0, 1 − ; 7)	GR	A	197.131 46	2.7	7623
* 7864	Q (1, 2 − ; 7)	GR ← (0, 1 − ; 7)	GR	A	197.131 46	−0.6	7623
* 7865	P (1, 8 ; 26)	GR ← (0, 7 ; 27)	GR	E	197.143 32	0.8	1188
* 7866	P (1, 0 ; 4)	GR ← (0, −1 ; 5)	GR	E	197.167 46	0.2	4554
* 7867	P (1, 6 ; 19)	GR ← (0, 5 ; 20)	GR	A	197.170 06	−0.9	3465
* 7868	R (1, 4 ; 26)	GR ← (0, 5 ; 25)	GR	E	197.172 22	1.1	2871
* 7869	Q (3, 1 + ; 27)	GR ← (2, 2 ; 27)	GR	A	197.196 82	0.0	3069
* 7870	Q (1, 1 + ; 25)	GR ← (0, 2 + ; 25)	GR	A	197.204 85	−2.3	5841
* 7871	Q (3, 1 + ; 26)	GR ← (2, 2 ; 26)	GR	A	197.241 03	−2.2	3663
* 7872	Q (3, 1 − ; 26)	GR ← (2, 2 ; 26)	GR	A	197.247 84	0.0	3861
* 7873	Q (1, 2 ; 6)	GR ← (0, 1 − ; 6)	GR	A	197.252 35	1.9	7920
* 7874	Q (1, 2 − ; 6)	GR ← (0, 1 − ; 6)	GR	A	197.252 35	0.0	7920
7875	Q (3, 1 + ; 25)	GR ← (2, 2 ; 25)	GR	A	197.285 58	7.3	2871
* 7876	Q (3, 1 − ; 25)	GR ← (2, 2 ; 25)	GR	A	197.289 67	1.2	3960
* 7877	P (1, 4 ; 25)	GR ← (0, 5 ; 26)	GR	A	197.306 15	−1.0	4752
* 7878	Q (3, 1 + ; 24)	GR ← (2, 2 ; 24)	GR	A	197.324 10	−2.5	4653
* 7879	Q (3, 1 − ; 24)	GR ← (2, 2 ; 24)	GR	A	197.329 74	0.7	4059
* 7880	Q (1, 2 ; 5)	GR ← (0, 1 − ; 5)	GR	A	197.356 34	0.0	7227
* 7881	Q (1, 2 − ; 5)	GR ← (0, 1 − ; 5)	GR	A	197.356 34	0.0	7227
* 7882	Q (3, 1 + ; 23)	GR ← (2, 2 ; 23)	GR	A	197.362 95	−3.3	4752
* 7883	Q (3, 1 − ; 23)	GR ← (2, 2 ; 23)	GR	A	197.368 05	2.1	4455
* 7884	Q (3, 1 + ; 22)	GR ← (2, 2 ; 22)	GR	A	197.399 91	−1.8	4950
* 7885	Q (3, 1 − ; 22)	GR ← (2, 2 ; 22)	GR	A	197.404 59	0.8	4752
* 7886	Q (3, 1 + ; 21)	GR ← (2, 2 ; 21)	GR	A	197.435 16	−2.6	5445
* 7887	Q (3, 1 − ; 21)	GR ← (2, 2 ; 21)	GR	A	197.439 43	1.0	5148
* 7888	Q (1, 2 ; 4)	GR ← (0, 1 − ; 4)	GR	A	197.443 29	1.1	7029
* 7889	Q (1, 2 − ; 4)	GR ← (0, 1 − ; 4)	GR	A	197.443 29	0.5	7029
* 7890	R (2, −6 ; 22)	GR ← (2, −5 ; 21)	GR	E	197.459 47	2.8	7920
* 7891	Q (1, 1 + ; 24)	GR ← (0, 2 + ; 24)	GR	A	197.459 47	−2.7	7920
7892	Q (3, 1 + ; 20)	GR ← (2, 2 ; 20)	GR	A	197.468 71	−3.7	4851
* 7893	Q (3, 1 − ; 20)	GR ← (2, 2 ; 20)	GR	A	197.472 71	2.2	5445
* 7894	R (1, 0 ; 2)	GR ← (0, 1 ; 1)	GR	E	197.474 74	0.2	3564
* 7895	P (1, 3 ; 15)	GR ← (0, 4 ; 16)	GR	E	197.478 93	−1.0	5148
* 7896	P (1, 5 ; 23)	GR ← (0, 4 + ; 24)	GR	A	197.485 05	−0.5	1881
* 7897	P (1, 5 ; 23)	GR ← (0, 4 − ; 24)	GR	A	197.493 62	0.9	3665
* 7898	R (1, 2 + ; 16)	GR ← (0, 3 − ; 15)	GR	A	197.497 24	−0.3	5940
7899	Q (3, 1 + ; 19)	GR ← (2, 2 ; 19)	GR	A	197.500 57	−3.3	5148
* 7900	Q (3, 1 − ; 19)	GR ← (2, 2 ; 19)	GR	A	197.504 01	2.5	5445
* 7901	Q (1, 2 ; 3)	GR ← (0, 1 − ; 3)	GR	A	197.512 95	0.1	6633
* 7902	Q (1, 2 − ; 3)	GR ← (0, 1 − ; 3)	GR	A	197.512 95	0.1	6633
* 7903	R (1, 2 − ; 16)	GR ← (0, 3 + ; 15)	GR	A	197.523 53	−0.9	5247
* 7904	Q (3, 1 + ; 18)	GR ← (2, 2 ; 18)	GR	A	197.530 86	−1.2	5445
* 7905	Q (3, 1 − ; 18)	GR ← (2, 2 ; 18)	GR	A	197.533 83	0.7	5643
* 7906	Q (3, 1 + ; 17)	GR ← (2, 2 ; 17)	GR	A	197.559 24	−1.2	6534
* 7907	Q (3, 1 − ; 17)	GR ← (2, 2 ; 17)	GR	A	197.561 98	0.7	5940
7908	P (2, 0 ; 15)	GR ← (1, −1 ; 16)	GR	E	197.565 17	11.0	5346
* 7909	Q (1, 2 − ; 2)	GR ← (0, 1 − ; 2)	GR	A	197.565 17	−0.6	5346
* 7910	Q (1, 2 ; 2)	GR ← (0, 1 − ; 2)	GR	A	197.565 17	−1.3	5346
* 7911	Q (3, 1 + ; 16)	GR ← (2, 2 ; 16)	GR	A	197.586 14	−0.5	6633
* 7912	Q (3, 1 − ; 16)	GR ← (2, 2 ; 16)	GR	A	197.588 56	−0.2	6138
* 7913	Q (3, 1 + ; 15)	GR ← (2, 2 ; 15)	GR	A	197.611 30	−0.9	6435
* 7914	Q (3, 1 − ; 15)	GR ← (2, 2 ; 15)	GR	A	197.613 52	0.1	5940
* 7915	Q (3, 1 + ; 14)	GR ← (2, 2 ; 14)	GR	A	197.634 81	0.6	6237
* 7916	Q (3, 1 − ; 14)	GR ← (2, 2 ; 14)	GR	A	197.636 89	2.4	6831
* 7917	Q (1, 2 + ; 2)	GR ← (0, 1 + ; 2)	GR	A	197.644 84	0.4	4950
* 7918	Q (1, 2 ; 2)	GR ← (0, 1 + ; 2)	GR	A	197.644 84	0.3	4950
* 7919	Q (3, 1 + ; 13)	GR ← (2, 2 ; 13)	GR	A	197.656 84	1.8	6237
* 7920	Q (3, 1 − ; 13)	GR ← (2, 2 ; 13)	GR	A	197.658 37	0.9	5841
* 7921	Q (1, 2 ; 3)	GR ← (0, 1 + ; 3)	GR	A	197.672 00	0.3	6435
* 7922	Q (1, 2 + ; 3)	GR ← (0, 1 + ; 3)	GR	A	197.672 00	0.2	6435
* 7923	Q (3, 1 + ; 12)	GR ← (2, 2 ; 12)	GR	A	197.676 93	−0.3	6210
* 7924	Q (3, 1 − ; 12)	GR ← (2, 2 ; 12)	GR	A	197.678 42	1.3	6276
* 7925	Q (3, 1 ; 11)	GR ← (2, 2 ; 11)	GR	A	197.697 08	1.9	7722
7926	Q (1, 1 + ; 23)	GR ← (0, 2 + ; 23)	GR	A	197.697 08	−6.0	7722
* 7927	Q (1, 2 + ; 4)	GR ← (0, 1 + ; 4)	GR	A	197.708 22	0.2	7326
* 7928	Q (1, 2 ; 4)	GR ← (0, 1 + ; 4)	GR	A	197.708 22	−0.1	7326
* 7929	Q (3, 1 ; 10)	GR ← (2, 2 ; 10)	GR	A	197.713 34	0.5	8217
* 7930	P (1, 1 − ; 17)	GR ← (0, 0 + ; 18)	GR	A	197.725 09	1.3	4554
* 7931	Q (3, 1 ; 9)	GR ← (2, 2 ; 9)	GR	A	197.728 84	1.1	8514
* 7932	Q (3, 1 ; 8)	GR ← (2, 2 ; 8)	GR	A	197.742 67	−0.8	8712
7933	Q (1, 2 + ; 5)	GR ← (0, 1 + ; 5)	GR	A	197.754 34	6.8	8514
7934	Q (1, 2 ; 5)	GR ← (0, 1 + ; 5)	GR	A	197.754 34	4.8	8514
7935	Q (3, 1 ; 7)	GR ← (2, 2 ; 7)	GR	A	197.754 34	−5.0	8514
* 7936	Q (3, 1 ; 6)	GR ← (2, 2 ; 6)	GR	A	197.765 78	−0.5	7722
* 7937	Q (3, 1 ; 5)	GR ← (2, 2 ; 5)	GR	A	197.774 96	0.0	7227
* 7938	R (2, 4 ; 30)	GR ← (1, 3 − ; 29)	GR	A	197.782 27	6.5	6930
7939	R (2, 4 + ; 30)	GR ← (1, 3 − ; 29)	GR	A	197.782 27	5.7	6930
7940	Q (3, 1 ; 4)	GR ← (2, 2 ; 4)	GR	A	197.782 27	−4.3	6930
7941	R (2, 4 − ; 30)	GR ← (1, 3 + ; 29)	GR	A	197.788 63	4.1	7920
* 7942	R (2, 4 ; 30)	GR ← (1, 3 + ; 29)	GR	A	197.788 63	2.7	7920
* 7943	Q (3, 1 ; 3)	GR ← (2, 2 ; 3)	GR	A	197.788 63	−0.6	7920
* 7944	Q (3, 1 ; 2)	GR ← (2, 2 ; 2)	GR	A	197.793 29	0.0	4653
* 7945	Q (1, 2 + ; 6)	GR ← (0, 1 + ; 6)	GR	A	197.808 51	0.7	7524
* 7946	Q (1, 2 ; 6)	GR ← (0, 1 + ; 6)	GR	A	197.808 51	−1.3	7524
* 7947	Q (1, 2 + ; 7)	GR ← (0, 1 + ; 7)	GR	A	197.872 65	−1.0	7920
7948	Q (1, 2 ; 7)	GR ← (0, 1 + ; 7)	GR	A	197.872 65	−3.9	7920
* 7949	R (3, 4 ; 26)	GR ← (2, 5 ; 25)	GR	E	197.908 33	2.2	2574
* 7950	Q (1, 1 + ; 22)	GR ← (0, 2 + ; 22)	GR	A	197.919 36	1.0	5940



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 7951	R (2, −2 ; 24) GR	←	(1, −1 ; 23) GR	E	197.940 21	0.6	6039
* 7952	Q (1, 2 +; 8) GR	←	(0, 1 +; 8) GR	A	197.946 45	0.6	8118
7953	Q (1, 2 ; 8) GR	←	(0, 1 +; 8) GR	A	197.946 45	−6.7	8118
* 7954	R (1, −3 ; 23) GR	←	(0, −4 ; 22) GR	E	197.994 81	1.9	5346
* 7955	R (1, 1 ; 7) GR	←	(0, 2 ; 6) GR	E	198.028 45	0.4	4935
* 7956	Q (1, 2 +; 9) GR	←	(0, 1 +; 9) GR	A	198.029 89	0.1	7623
* 7957	P (1, −4 ; 24) GR	←	(0, −3 ; 25) GR	E	198.112 26	0.0	2871
* 7958	Q (1, 2 +; 10) GR	←	(0, 1 +; 10) GR	A	198.123 18	−0.6	8118
* 7959	Q (1, 1 +; 21) GR	←	(0, 2 +; 21) GR	A	198.125 19	0.1	6633
* 7960	P (3, 2 ; 23) GR	←	(3, 1 ; 24) GR	E	198.146 44	−1.8	1683
* 7961	R (2, 6 ; 7) GR	←	(1, 5 ; 6) GR	E	198.152 63	−0.1	6237
* 7962	R (3, 1 ; 3) GR	←	(2, 0 ; 2) GR	E	198.173 43	0.4	4653
* 7963	R (2, −1 ; 24) GR	←	(1, 0 ; 23) GR	E	198.183 35	1.1	2277
* 7964	P (3, −1 ; 24) GR	←	(3, 0 ; 25) GR	E	198.199 01	−0.8	1386
* 7965	R (2, 4 ; 9) GR	←	(2, 3 ; 8) GR	E	198.218 72	−0.3	8118
* 7966	Q (1, 2 +; 11) GR	←	(0, 1 +; 11) GR	A	198.226 54	0.3	8019
* 7967	R (1, 1 ; 3) GR	←	(0, 0 ; 2) GR	E	198.255 23	−0.1	5544
* 7968	R (1, 5 ; 27) GR	←	(0, 6 ; 26) GR	A	198.283 37	−0.6	2871
* 7969	P (4, −1 ; 26) GR	←	(3, −2 ; 27) GR	E	198.293 44	−0.3	990
* 7970	R (2, 5 ; 13) GR	←	(2, 4 ; 12) GR	A	198.304 94	−0.3	8415
7971	P (2, −6 ; 15) GR	←	(1, −5 ; 16) GR	E	198.304 94	−12.2	8415
* 7972	R (1, −6 ; 24) GR	←	(0, −7 ; 23) GR	E	198.308 52	1.3	1881
* 7973	Q (1, 1 +; 20) GR	←	(0, 2 +; 20) GR	A	198.315 68	−1.3	6633
* 7974	Q (1, 2 +; 12) GR	←	(0, 1 +; 12) GR	A	198.340 12	−0.6	8019
* 7975	R (1, 6 ; 30) GR	←	(0, 7 ; 29) GR	A	198.344 51	1.0	0
7976	R (2, −5 ; 26) GR	←	(1, −4 ; 25) GR	E	198.345 94	3.7	6831
7977	P (1, 5 ; 20) GR	←	(0, 4 ; 21) GR	E	198.345 94	−4.4	6831
* 7978	Q (1, 2 +; 13) GR	←	(0, 1 +; 13) GR	A	198.464 03	0.0	8118
* 7979	Q (1, 1 +; 19) GR	←	(0, 2 +; 19) GR	A	198.491 72	−1.2	6831
* 7980	P (1, −3 ; 4) GR	←	(0, −2 ; 5) GR	E	198.494 52	−0.9	2277
* 7981	P (1, 2 ; 27) GR	←	(0, 3 ; 28) GR	E	198.497 37	−2.0	1881
* 7982	P (1, 7 ; 9) GR	←	(0, 8 ; 10) GR	A	198.499 47	−0.1	4950
7983	R (2, 5 ; 15) GR	←	(1, 6 ; 14) GR	E	198.503 22	−4.3	2079
* 7984	R (2, 3 ; 29) GR	←	(1, 2 ; 28) GR	E	198.507 73	0.2	4851
* 7985	P (1, −5 ; 30) GR	←	(0, −6 ; 31) GR	E	198.559 71	−0.5	990
* 7986	P (1, 3 ; 12) GR	←	(0, 4 ; 13) GR	A	198.594 84	0.1	6138
* 7987	Q (1, 2 +; 14) GR	←	(0, 1 +; 14) GR	A	198.598 51	−0.5	7920
* 7988	R (1, 4 ; 27) GR	←	(0, 5 ; 26) GR	E	198.607 38	−1.3	2475
7989	P (1, −7 ; 20) GR	←	(0, −6 ; 21) GR	E	198.619 39	4.6	3069
* 7990	R (3, −3 ; 28) GR	←	(2, −4 ; 27) GR	E	198.619 39	−1.3	3069
7991	R (1, 5 ; 16) GR	←	(0, 6 ; 15) GR	E	198.653 69	6.4	7326
* 7992	Q (1, 1 +; 18) GR	←	(0, 2 +; 18) GR	A	198.653 69	−0.9	7326
* 7993	R (2, −3 ; 7) GR	←	(2, −2 ; 6) GR	E	198.688 35	0.2	7722
* 7994	P (1, −2 ; 6) GR	←	(0, −3 ; 7) GR	E	198.693 40	−0.7	6930
* 7995	P (1, 8 ; 25) GR	←	(0, 7 ; 26) GR	E	198.739 42	−0.1	1782
* 7996	Q (1, 2 +; 15) GR	←	(0, 1 +; 15) GR	A	198.743 68	0.0	8118
* 7997	P (1, 0 ; 3) GR	←	(0, −1 ; 4) GR	E	198.755 82	−0.1	4356
* 7998	P (1, 4 ; 12) GR	←	(0, 3 ; 13) GR	E	198.772 05	−0.7	3762
* 7999	R (3, 0 ; 2) GR	←	(2, 1 ; 1) GR	E	198.800 16	0.0	2178
* 8000	Q (1, 1 +; 17) GR	←	(0, 2 +; 17) GR	A	198.802 84	1.1	8217
* 8001	P (1, 4 ; 24) GR	←	(0, 5 ; 25) GR	A	198.825 88	0.3	4752
* 8002	Q (1, 2 +; 16) GR	←	(0, 1 +; 16) GR	A	198.899 74	−0.7	7920
* 8003	P (1, 6 ; 18) GR	←	(0, 5 ; 19) GR	A	198.903 23	−0.1	5445
* 8004	Q (1, 1 +; 16) GR	←	(0, 2 +; 16) GR	A	198.938 95	−0.8	7326
* 8005	R (1, 2 +; 17) GR	←	(0, 3 −; 16) GR	A	198.978 91	−0.5	5346
* 8006	R (2, −6 ; 23) GR	←	(2, −5 ; 22) GR	E	199.006 58	0.5	5445
8007	R (1, 2 −; 17) GR	←	(0, 3 +; 16) GR	A	199.013 52	−5.8	7722
* 8008	R (1, 0 ; 3) GR	←	(0, 1 ; 2) GR	E	199.036 59	−0.6	6237
* 8009	Q (1, 1 +; 15) GR	←	(0, 2 +; 15) GR	A	199.063 23	−0.2	7722
* 8010	Q (1, 2 +; 17) GR	←	(0, 1 +; 17) GR	A	199.066 92	−0.4	7821
* 8011	P (1, 3 ; 14) GR	←	(0, 4 ; 15) GR	E	199.155 35	2.4	6775
* 8012	P (2, 0 ; 14) GR	←	(1, −1 ; 15) GR	E	199.169 19	−1.5	2375
* 8013	Q (1, 1 +; 14) GR	←	(0, 2 +; 14) GR	A	199.176 43	0.0	8514
* 8014	P (1, 5 ; 22) GR	←	(0, 4 +; 23) GR	A	199.201 38	−1.9	1881
* 8015	P (1, 5 ; 22) GR	←	(0, 4 −; 23) GR	A	199.207 61	0.5	2598
* 8016	R (2, 4 ; 31) GR	←	(1, 3 −; 30) GR	A	199.241 36	1.0	4158
* 8017	R (2, 4 +; 31) GR	←	(1, 3 −; 30) GR	A	199.241 36	0.1	4158
* 8018	Q (1, 2 +; 18) GR	←	(0, 1 +; 18) GR	A	199.245 20	−1.5	8118
* 8019	R (2, 4 −; 31) GR	←	(1, 3 +; 30) GR	A	199.249 53	0.2	3960
* 8020	R (2, 4 ; 31) GR	←	(1, 3 +; 30) GR	A	199.249 53	−0.2	3960
8021	Q (1, 1 +; 13) GR	←	(0, 2 +; 13) GR	A	199.279 38	4.9	8514
* 8022	P (1, 1 −; 16) GR	←	(0, 0 +; 17) GR	A	199.282 52	−1.6	7524
* 8023	Q (1, 1 −; 27) GR	←	(0, 2 −; 27) GR	A	199.286 95	0.0	5643
* 8024	Q (1, 1 −; 26) GR	←	(0, 2 −; 26) GR	A	199.300 65	−0.6	5346
* 8025	Q (1, 1 −; 25) GR	←	(0, 2 −; 25) GR	A	199.317 64	−1.0	5643

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 8026	Q (1, 1 −; 24) GR	←	(0, 2 −; 24) GR	A	199.337 50	−0.7	7128
* 8027	Q (1, 1 −; 23) GR	←	(0, 2 −; 23) GR	A	199.360 00	−0.8	6633
* 8028	Q (1, 1 +; 12) GR	←	(0, 2 +; 12) GR	A	199.371 38	0.5	7623
* 8029	Q (1, 1 −; 22) GR	←	(0, 2 −; 22) GR	A	199.384 69	1.0	6831
* 8030	Q (1, 1 −; 21) GR	←	(0, 2 −; 21) GR	A	199.411 21	0.3	7029
* 8031	R (3, 4 ; 27) GR	←	(2, 5 ; 26) GR	E	199.432 87	0.4	2104
* 8032	Q (1, 2 +; 19) GR	←	(0, 1 +; 19) GR	A	199.435 23	0.8	8613
* 8033	R (2, −2 ; 25) GR	←	(1, −1 ; 24) GR	E	199.436 27	0.5	5645
* 8034	Q (1, 1 −; 20) GR	←	(0, 2 −; 20) GR	A	199.439 27	1.2	7425
* 8035	R (1, −3 ; 24) GR	←	(0, −4 ; 23) GR	E	199.443 84	−0.1	3861
* 8036	Q (1, 1 +; 11) GR	←	(0, 2 +; 11) GR	A	199.454 32	−0.8	7821
* 8037	Q (1, 1 −; 19) GR	←	(0, 2 −; 19) GR	A	199.468 48	0.5	7128
* 8038	Q (1, 1 −; 18) GR	←	(0, 2 −; 18) GR	A	199.498 62	2.4	8019
* 8039	Q (1, 1 +; 10) GR	←	(0, 2 +; 10) GR	A	199.528 67	2.1	9009
* 8040	Q (1, 1 −; 17) GR	←	(0, 2 −; 17) GR	A	199.528 67	−1.2	9009
* 8041	R (1, 6 ; 31) GR	←	(0, 7 ; 30) GR	A	199.546 95	0.6	1386
* 8042	Q (1, 1 −; 16) GR	←	(0, 2 −; 16) GR	A	199.559 57	0.9	7623
* 8043	R (1, 1 ; 8) GR	←	(0, 2 ; 7) GR	E	199.562 99	0.0	4752
* 8044	Q (1, 1 −; 15) GR	←	(0, 2 −; 15) GR	A	199.590 00	−0.8	7920
* 8045	Q (1, 1 +; 9) GR	←	(0, 2 +; 9) GR	A	199.594 21	0.3	7722
* 8046	Q (1, 1 −; 14) GR	←	(0, 2 −; 14) GR	A	199.620 03	0.2	7623
* 8047	Q (1, 2 +; 20) GR	←	(0, 1 +; 20) GR	A	199.636 45	−1.4	7425
* 8048	Q (1, 1 −; 13) GR	←	(0, 2 −; 13) GR	A	199.649 37	−0.3	8217
* 8049	Q (1, 1 +; 8) GR	←	(0, 2 +; 8) GR	A	199.651 91	−0.3	8118
* 8050	Q (1, 1 −; 12) GR	←	(0, 2 −; 12) GR	A	199.677 67	0.1	7821
8051	Q (1, 1 +; 7) GR	←	(0, 2 +; 7) GR	A	199.702 60	3.9	9207
8052	R (2, 6 ; 8) GR	←	(1, 5 ; 7) GR	E	199.702 60	−6.1	9207
* 8053	Q (1, 1 −; 11) GR	←	(0, 2 −; 11) GR	A	199.704 65	−1.1	7623
* 8054	R (1, 5 ; 28) GR	←	(0, 6 ; 27) GR	A	199.719 09	0.6	2871
* 8055	Q (1, 1 −; 10) GR	←	(0, 2 −; 10) GR	A	199.730 62	1.5	7920
8056	P (1, −4 ; 23) GR	←	(0, −3 ; 24) GR	E	199.730 62	−8.6	7920
* 8057	R (3, 1 ; 4) GR	←	(2, 0 ; 3) GR	E	199.736 27	3.6	5445
8058	R (2, −1 ; 25) GR	←	(1, 0 ; 24) GR	E	199.736 27	−6.5	5445
8059	P (3, 2 ; 22) GR	←	(3, 1 ; 23) GR	E	199.745 37	6.1	7821
* 8060	Q (1, 1 +; 6) GR	←	(0, 2 +; 6) GR	A	199.745 37	0.2	7821
* 8061	Q (1, 1 −; 9) GR	←	(0, 2 −; 9) GR	A	199.754 37	−0.4	7920
* 8062	R (1, −6 ; 25) GR	←	(0, −7 ; 24) GR	E	199.756 83	0.9	1980
* 8063	R (2, 4 ; 10) GR	←	(2, 3 ; 9) GR	E	199.775 88	2.6	9504
8064	Q (1, 1 −; 8) GR	←	(0, 2 −; 8) GR	A	199.775 88	−5.4	9504
* 8065	Q (1, 1 +; 5) GR	←	(0, 2 +; 5) GR	A	199.781 77	−0.2	7128
* 8066	Q (1, 1 −; 7) GR	←	(0, 2 −; 7) GR	A	199.796 65	0.2	7623
* 8067	R (2, −5 ; 27) GR	←	(1, −4 ; 26) GR	E	199.800 82	2.5	5346
* 8068	P (3, −1 ; 23) GR	←	(3, 0 ; 24) GR	E	199.800 82	2.3	5346
* 8069	Q (1, 1 +; 4) GR	←	(0, 2 +; 4) GR	A	199.811 69	−0.6	7029
8070	Q (1, 1 +; 4) GR	←	(0, 2 ; 4) GR	A	199.811 69	−4.6	7029
8071	R (1, 1 ; 4) GR	←	(0, 0 ; 3) GR	E	199.814 21	5.1	9207
* 8072	Q (1, 1 −; 6) GR	←	(0, 2 −; 6) GR	A	199.814 21	−3.1	9207
* 8073	Q (1, 1 −; 5) GR	←	(0, 2 −; 5) GR	A	199.830 25	0.9	7623
* 8074	Q (1, 1 +; 3) GR	←	(0, 2 +; 3) GR	A	199.835 26	−1.1	6435
* 8075	Q (1, 1 +; 3) GR	←	(0, 2 ; 3) GR	A	199.835 26	−2.1	6435
8076	Q (1, 1 −; 4) GR	←	(0, 2 ; 4) GR	A	199.843 36	6.9	7029
* 8077	Q (1, 1 −; 4) GR	←	(0, 2 −; 4) GR	A	199.843 36	0.6	7029
* 8078	Q (1, 2 +; 21) GR	←	(0, 1 +; 21) GR	A	199.849 54	1.1	7524
8079	Q (1, 1 +; 2) GR	←	(0, 2 +; 2) GR	A	199.853 65	7.4	6930
8080	Q (1, 1 +; 2) GR	←	(0, 2 ; 2) GR	A	199.853 65	6.2	6930
* 8081	Q (1, 1 −; 3) GR	←	(0, 2 ; 3) GR	A	199.853 65	−0.6	6930
8082	Q (1, 1 −; 3) GR	←	(0, 2 −; 3) GR	A	199.853 65	−2.9	6930
* 8083	R (2, 5 ; 14) GR	←	(2, 4 ; 13) GR	A	199.859 12	0.5	8613
* 8084	Q (1, 1 −; 2) GR	←	(0, 2 −; 2) GR	A	199.862 03	0.2	5049
* 8085	Q (1, 1 −; 2) GR	←	(0, 2 ; 2) GR	A	199.862 03	−0.4	5049
* 8086	P (4, −1 ; 25) GR	←	(3, −2 ; 26) GR	E	199.893 86	−0.8	891
* 8087	P (1, 5 ; 19) GR	←	(0, 4 ; 20) GR	E	199.910 69	−0.3	4950
* 8088	P (2, −6 ; 14) GR	←	(1, −5 ; 15) GR	E	199.924 62	−2.7	2871
* 8089	R (2, 3 ; 30) GR	←	(1, 2 ; 29) GR	E	199.979 82	0.0	4158
* 8090	R (1, 4 ; 28) GR	←	(0, 5 ; 27) GR	E	200.036 07	−1.2	2277
* 8091	R (2, 5 ; 16) GR	←	(1, 6 ; 15) GR	E	200.051 64	−0.9	1089
* 8092	Q (1, 2 +; 22) GR	←	(0, 1 +; 22) GR	A	200.074 26	−0.2	6930
* 8093	P (1, −3 ; 3) GR	←	(0, −2 ; 4) GR	E	200.087 99	0.9	1386
* 8094	P (1, 7 ; 8) GR	←	(0, 8 ; 9) GR	A	200.104 86	0.6	5544
8095	P (1, −5 ; 29) GR	←	(0, −6 ; 30) GR	E	200.126 74	−6.9	1386
* 8096	R (3, −3 ; 29) GR	←	(2, −4 ; 28) GR	E	200.136 96	1.0	1782
8097	R (1, 5 ; 17) GR	←	(0, 6 ; 16) GR	E	200.216 15	6.7	6534
* 8098	P (1, 3 ; 11) GR	←	(0, 4 ; 12) GR	A	200.216 15	−1.5	6534
* 8099	R (2, −3 ; 8) GR	←	(2, −2 ; 7) GR	E	200.246 77	−0.3	7227
* 8100	P (1, 2 ; 26) GR	←	(0, 3 ; 27) GR	E	200.261 10	−1.8	3366



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 8101	P (1, −2 ; 5) GR	←	(0, −3 ; 6) GR	E	200.293 45	0.5	7029
* 8102	Q (1, 2 + ; 23) GR	←	(0, 1 + ; 23) GR	A	200.310 93	1.0	6732
* 8103	P (1, −7 ; 19) GR	←	(0, −6 ; 20) GR	E	200.319 40	1.1	2079
8104	P (1, 8 ; 24) GR	←	(0, 7 ; 25) GR	E	200.338 49	5.4	1386
* 8105	P (1, 0 ; 2) GR	←	(0, −1 ; 3) GR	E	200.341 27	−0.2	3861
* 8106	P (1, 4 ; 23) GR	←	(0, 5 ; 24) GR	A	200.355 23	0.0	5148
* 8107	R (3, 0 ; 3) GR	←	(2, 1 ; 2) GR	E	200.363 74	0.6	2475
* 8108	P (1, 4 ; 11) GR	←	(0, 3 ; 12) GR	E	200.410 66	0.4	3663
* 8109	R (1, 2 + ; 18) GR	←	(0, 3 − ; 17) GR	A	200.451 93	0.3	5148
* 8110	R (1, 2 − ; 18) GR	←	(0, 3 + ; 17) GR	A	200.498 20	−0.3	5049
* 8111	R (2, −6 ; 24) GR	←	(2, −5 ; 23) GR	E	200.552 01	−0.1	4752
* 8112	Q (1, 2 + ; 24) GR	←	(0, 1 + ; 24) GR	A	200.559 65	1.0	7920
* 8113	R (1, 0 ; 4) GR	←	(0, 1 ; 3) GR	E	200.594 02	−0.3	6039
* 8114	Q (1, −3 ; 30) GR	←	(0, −2 ; 30) GR	E	200.594 02	−2.8	6039
* 8115	P (1, 6 ; 17) GR	←	(0, 5 ; 18) GR	A	200.620 67	−0.7	3663
* 8116	R (2, 4 + ; 32) GR	←	(1, 3 − ; 31) GR	A	200.694 44	1.7	3267
* 8117	R (2, 4 ; 32) GR	←	(1, 3 − ; 31) GR	A	200.694 44	1.5	3267
* 8118	R (2, 4 − ; 32) GR	←	(1, 3 + ; 31) GR	A	200.704 16	0.8	3267
* 8119	R (2, 4 ; 32) GR	←	(1, 3 + ; 31) GR	A	200.704 16	0.1	3267
* 8120	R (1, 6 ; 32) GR	←	(0, 7 ; 31) GR	A	200.730 96	−1.0	1089
* 8121	R (1, 2 + ; 2) GR	←	(0, 1 − ; 1) GR	A	200.741 13	0.1	6435
* 8122	R (1, 2 ; 2) GR	←	(0, 1 − ; 1) GR	A	200.741 13	0.0	6435
* 8123	R (1, 2 − ; 2) GR	←	(0, 1 + ; 1) GR	A	200.767 64	1.0	6534
* 8124	R (1, 2 ; 2) GR	←	(0, 1 + ; 1) GR	A	200.767 64	0.3	6534
* 8125	P (2, 0 ; 13) GR	←	(1, −1 ; 14) GR	E	200.772 15	−0.9	3168
* 8126	P (1, 3 ; 13) GR	←	(0, 4 ; 14) GR	E	200.819 73	2.6	8316
8127	Q (1, 2 + ; 25) GR	←	(0, 1 + ; 25) GR	A	200.819 73	−4.4	8316
* 8128	P (1, 1 − ; 15) GR	←	(0, 0 + ; 16) GR	A	200.846 88	−1.0	4950
* 8129	R (1, −3 ; 25) GR	←	(0, −4 ; 24) GR	E	200.886 16	1.7	3465
* 8130	P (1, 5 ; 21) GR	←	(0, 4 + ; 22) GR	A	200.907 72	−0.8	1683
* 8131	P (1, 5 ; 21) GR	←	(0, 4 − ; 22) GR	A	200.912 04	0.3	2178
* 8132	R (2, −2 ; 26) GR	←	(1, −1 ; 25) GR	E	200.927 63	−0.6	5148
8133	R (3, 4 ; 28) GR	←	(2, 5 ; 27) GR	E	200.956 35	5.9	1386
* 8134	R (1, 1 ; 9) GR	←	(0, 2 ; 8) GR	E	201.090 30	0.9	5940
* 8135	Q (1, 2 + ; 26) GR	←	(0, 1 + ; 26) GR	A	201.092 82	−1.3	6534
* 8136	Q (1, −3 ; 29) GR	←	(0, −2 ; 29) GR	E	201.127 33	2.6	2871
* 8137	R (1, 5 ; 29) GR	←	(0, 6 ; 28) GR	A	201.148 54	0.5	2178
* 8138	R (2, −5 ; 28) GR	←	(1, −4 ; 27) GR	E	201.247 17	0.2	4356
* 8139	R (2, 6 ; 9) GR	←	(1, 5 ; 8) GR	E	201.249 80	0.1	6138
* 8140	R (2, −1 ; 26) GR	←	(1, 0 ; 25) GR	E	201.293 00	0.9	2079
* 8141	R (3, 1 ; 5) GR	←	(2, 0 ; 4) GR	E	201.297 01	0.0	5247
* 8142	R (2, 4 ; 11) GR	←	(2, 3 ; 10) GR	E	201.330 80	1.1	7326
* 8143	P (3, 2 ; 21) GR	←	(3, 1 ; 22) GR	E	201.342 08	−0.1	2079
* 8144	P (1, −4 ; 22) GR	←	(0, −3 ; 23) GR	E	201.352 83	−0.8	3366
* 8145	R (1, 1 ; 5) GR	←	(0, 0 ; 4) GR	E	201.369 17	0.5	6435
* 8146	Q (1, 2 + ; 27) GR	←	(0, 1 + ; 27) GR	A	201.377 60	−0.9	5841
* 8147	P (1, 3 − ; 28) GR	←	(0, 2 + ; 29) GR	A	201.392 80	−2.6	1386
* 8148	P (3, −1 ; 22) GR	←	(3, 0 ; 23) GR	E	201.400 58	1.3	1485
* 8149	R (2, 5 ; 15) GR	←	(2, 4 ; 14) GR	A	201.412 00	−0.2	8316
* 8150	R (2, 3 ; 31) GR	←	(1, 2 ; 30) GR	E	201.445 86	−1.5	3564
* 8151	R (1, 4 ; 29) GR	←	(0, 5 ; 28) GR	E	201.457 90	−0.7	2079
* 8152	P (1, 5 ; 18) GR	←	(0, 4 ; 19) GR	E	201.483 05	1.0	4752
* 8153	P (4, −1 ; 24) GR	←	(3, −2 ; 25) GR	E	201.493 30	0.8	990
* 8154	P (2, −6 ; 13) GR	←	(1, −5 ; 14) GR	E	201.538 67	−0.2	2376
* 8155	R (2, 5 ; 17) GR	←	(1, 6 ; 16) GR	E	201.601 88	−1.7	1485
* 8156	Q (1, −3 ; 28) GR	←	(0, −2 ; 28) GR	E	201.634 99	−0.3	3663
* 8157	R (3, −3 ; 30) GR	←	(2, −4 ; 29) GR	E	201.651 63	0.4	1287
* 8158	Q (1, 2 + ; 28) GR	←	(0, 1 + ; 28) GR	A	201.674 42	0.5	5445
* 8159	P (1, −5 ; 28) GR	←	(0, −6 ; 29) GR	E	201.700 93	−0.1	1485
* 8160	P (1, 7 ; 7) GR	←	(0, 8 ; 8) GR	A	201.706 77	−0.4	5346
* 8161	R (1, 5 ; 18) GR	←	(0, 6 ; 17) GR	E	201.783 69	0.3	2079
* 8162	R (2, −3 ; 9) GR	←	(2, −2 ; 8) GR	E	201.803 71	−1.0	7128
* 8163	P (1, 3 ; 10) GR	←	(0, 4 ; 11) GR	A	201.833 67	−0.1	6237
* 8164	P (1, −2 ; 4) GR	←	(0, −3 ; 5) GR	E	201.889 06	−0.7	7029
* 8165	P (1, 4 ; 22) GR	←	(0, 5 ; 23) GR	A	201.893 88	−0.6	5742
* 8166	R (1, 6 ; 33) GR	←	(0, 7 ; 32) GR	A	201.896 51	−1.7	693
* 8167	R (1, 2 + ; 19) GR	←	(0, 3 − ; 18) GR	A	201.915 56	0.4	5346
* 8168	P (1, 0 ; 1) GR	←	(0, −1 ; 2) GR	E	201.923 40	−0.3	3366
* 8169	R (3, 0 ; 4) GR	←	(2, 1 ; 3) GR	E	201.925 72	−0.1	3663
* 8170	P (1, 8 ; 23) GR	←	(0, 7 ; 24) GR	E	201.938 88	0.7	1980
* 8171	R (1, 2 − ; 19) GR	←	(0, 3 + ; 18) GR	A	201.975 97	0.2	4950
* 8172	Q (1, 2 + ; 29) GR	←	(0, 1 + ; 29) GR	A	201.983 21	−0.4	4851
* 8173	P (1, −7 ; 18) GR	←	(0, −6 ; 19) GR	E	202.009 35	0.7	2178
8174	P (1, 2 ; 25) GR	←	(0, 3 ; 26) GR	E	202.014 01	3.5	7326
* 8175	P (1, 4 ; 10) GR	←	(0, 3 ; 11) GR	E	202.041 99	0.4	3663
* 8176	P (1, 6 ; 21) GR	←	(0, 7 ; 22) GR	E	202.067 46	−1.0	891
* 8177	R (2, −6 ; 25) GR	←	(2, −5 ; 24) GR	E	202.095 65	0.5	4554
* 8178	Q (1, −3 ; 27) GR	←	(0, −2 ; 27) GR	E	202.116 44	0.2	3861
* 8179	R (2, 4 ; 33) GR	←	(1, 3 − ; 32) GR	A	202.140 37	1.8	3267
* 8180	R (2, 4 + ; 33) GR	←	(1, 3 − ; 32) GR	A	202.140 37	0.1	3267
* 8181	R (1, 0 ; 5) GR	←	(0, 1 ; 4) GR	E	202.146 89	0.6	6138
* 8182	R (2, 4 − ; 33) GR	←	(1, 3 + ; 32) GR	A	202.151 97	0.2	2673
* 8183	R (2, 4 ; 33) GR	←	(1, 3 + ; 32) GR	A	202.151 97	0.1	2673
* 8184	R (1, 2 ; 3) GR	←	(0, 1 − ; 2) GR	A	202.276 46	−0.3	6435
* 8185	R (1, 2 + ; 3) GR	←	(0, 1 − ; 2) GR	A	202.276 46	−0.4	6435
* 8186	Q (1, 2 + ; 30) GR	←	(0, 1 + ; 30) GR	A	202.303 94	−1.1	4554
* 8187	R (1, −3 ; 26) GR	←	(0, −4 ; 25) GR	E	202.320 72	0.7	3861
* 8188	P (1, 6 ; 16) GR	←	(0, 5 ; 17) GR	A	202.323 59	−1.0	4059
* 8189	R (1, 2 ; 3) GR	←	(0, 1 + ; 2) GR	A	202.355 96	−0.4	7623
* 8190	R (1, 2 − ; 3) GR	←	(0, 1 + ; 2) GR	A	202.355 96	−0.5	7623
* 8191	P (2, 0 ; 12) GR	←	(1, −1 ; 13) GR	E	202.372 62	0.1	3168
* 8192	R (2, −2 ; 27) GR	←	(1, −1 ; 26) GR	E	202.414 12	0.0	5643
* 8193	P (1, 1 − ; 14) GR	←	(0, 0 + ; 15) GR	A	202.416 42	1.3	5940
* 8194	P (1, 3 ; 12) GR	←	(0, 4 ; 13) GR	E	202.472 40	−2.0	7425
* 8195	R (3, 4 ; 29) GR	←	(2, 5 ; 28) GR	E	202.476 99	−1.5	4257
* 8196	R (3, 1 ; 3) GR	←	(2, 2 ; 2) GR	A	202.491 43	0.1	1782
* 8197	Q (1, −3 ; 26) GR	←	(0, −2 ; 26) GR	E	202.570 68	0.1	4653
8198	R (1, 5 ; 30) GR	←	(0, 6 ; 29) GR	A	202.572 26	4.2	1525
* 8199	P (1, 5 ; 20) GR	←	(0, 4 + ; 21) GR	A	202.604 44	1.5	2277
* 8200	P (1, 5 ; 20) GR	←	(0, 4 − ; 21) GR	A	202.607 09	−1.4	2772
* 8201	R (1, 1 ; 10) GR	←	(0, 2 ; 9) GR	E	202.609 43	−0.3	5544
* 8202	Q (1, 2 + ; 31) GR	←	(0, 1 + ; 31) GR	A	202.636 73	−1.0	4059
* 8203	R (2, −5 ; 29) GR	←	(1, −4 ; 28) GR	E	202.684 45	−0.7	8811
* 8204	R (2, 6 ; 10) GR	←	(1, 5 ; 9) GR	E	202.791 68	0.1	5940
* 8205	R (2, −1 ; 27) GR	←	(1, 0 ; 26) GR	E	202.851 31	2.5	1782
* 8206	R (3, 1 ; 6) GR	←	(2, 0 ; 5) GR	E	202.856 36	−0.2	6435
* 8207	R (1, 4 ; 30) GR	←	(0, 5 ; 29) GR	E	202.872 77	−0.3	2376
* 8208	R (2, 4 ; 12) GR	←	(2, 3 ; 11) GR	E	202.884 77	−0.3	7623
* 8209	R (2, 3 ; 32) GR	←	(1, 2 ; 31) GR	E	202.905 63	1.0	4158
* 8210	R (1, 1 ; 6) GR	←	(0, 0 ; 5) GR	E	202.922 29	−0.9	7029
* 8211	P (3, 2 ; 20) GR	←	(3, 1 ; 21) GR	E	202.938 29	0.1	2376
* 8212	R (2, 5 ; 16) GR	←	(2, 4 ; 15) GR	A	202.963 52	0.2	8019
* 8213	Q (1, 2 + ; 32) GR	←	(0, 1 + ; 32) GR	A	202.976 01	0.4	3564
* 8214	P (1, −4 ; 21) GR	←	(0, −3 ; 22) GR	E	202.976 01	−0.3	3564
* 8215	Q (1, −3 ; 25) GR	←	(0, −2 ; 25) GR	E	202.996 23	−0.4	4851
* 8216	P (3, −1 ; 21) GR	←	(3, 0 ; 22) GR	E	202.999 33	−0.5	1782
* 8217	R (1, 6 ; 34) GR	←	(0, 7 ; 33) GR	A	203.044 23	−0.8	792
* 8218	P (1, 5 ; 17) GR	←	(0, 4 ; 18) GR	E	203.062 76	0.5	5247
* 8219	P (4, −1 ; 23) GR	←	(3, −2 ; 24) GR	E	203.091 52	0.3	1089
* 8220	P (1, 3 − ; 27) GR	←	(0, 2 + ; 28) GR	A	203.132 23	−0.4	1683
* 8221	P (2, −6 ; 12) GR	←	(1, −5 ; 13) GR	E	203.147 72	−0.7	2277
* 8222	R (2, 5 ; 18) GR	←	(1, 6 ; 17) GR	E	203.155 19	2.2	1287
* 8223	R (3, −3 ; 31) GR	←	(2, −4 ; 30) GR	E	203.163 79	−1.0	1386
* 8224	R (2, 8 ; 8) GR	←	(1, 7 ; 7) GR	A	203.225 89	0.8	8514
* 8225	P (1, −5 ; 27) GR	←	(0, −6 ; 28) GR	E	203.279 28	−1.0	1683
* 8226	R (1, 5 ; 19) GR	←	(0, 6 ; 18) GR	E	203.359 08	1.9	7623
* 8227	R (2, −3 ; 10) GR	←	(2, −2 ; 9) GR	E	203.359 08	−0.1	7623
* 8228	R (1, 2 + ; 20) GR	←	(0, 3 − ; 19) GR	A	203.369 22	−0.2	5148
* 8229	Q (1, −3 ; 24) GR	←	(0, −2 ; 24) GR	E	203.392 49	0.2	5247
* 8230	P (1, 4 ; 21) GR	←	(0, 5 ; 22) GR	A	203.441 88	0.9	6435
* 8231	P (1, 3 ; 9) GR	←	(0, 4 ; 10) GR	A	203.447 13	1.9	7524
* 8232	R (1, 2 − ; 20) GR	←	(0, 3 + ; 19) GR	A	203.447 13	−0.8	7524
* 8233	R (1, 8 ; 13) GR	←	(0, 9 ; 12) GR	A	203.473 53	1.8	792
* 8234	P (1, −2 ; 3) GR	←	(0, −3 ; 4) GR	E	203.480 44	−0.4	6633
* 8235	R (3, 0 ; 5) GR	←	(2, 1 ; 4) GR	E	203.486 00	−0.6	3960
* 8236	P (1, 0 ; 0) GR	←	(0, −1 ; 1) GR	E	203.501 92	0.1	2376
* 8237	P (1, 8 ; 22) GR	←	(0, 7 ; 23) GR	E	203.542 07	−0.3	2079
* 8238	R (2, 4 ; 34) GR	←	(1, 3 − ; 33) GR	A	203.578 88	−0.3	2871
8239	R (2, 4 + ; 34) GR	←	(1, 3 − ; 33) GR	A	203.578 88	−0.4	2871
* 8240	R (2, 4 − ; 34) GR	←	(1, 3 + ; 33) GR	A	203.592 71	2.5	2277
* 8241	R (2, 4 ; 34) GR	←	(1, 3 + ; 33) GR	A	203.592 71	−2.4	2277
* 8242	R (2, −6 ; 26) GR	←	(2, −5 ; 25) GR	E	203.637 23	−0.3	4158
* 8243	P (1, 4 ; 9) GR	←	(0, 3 ; 10) GR	E	203.666 56	0.6	3267
* 8244	P (1, −7 ; 17) GR	←	(0, −6 ; 18) GR	E	203.689 34	−1.2	2178
* 8245	R (1, 0 ; 6) GR	←	(0, 1 ; 5) GR	E	203.694 83	−0.4	6138
* 8246	R (1, −3 ; 27) GR	←	(0, −4 ; 26) GR	E	203.747 86	0.8	2871
* 8247	P (1, 2 ; 24) GR	←	(0, 3 ; 25) GR	E	203.754 42	−1.5	2574
* 8248	Q (1, −3 ; 23) GR	←	(0, −2 ; 23) GR	E	203.758 43	−0.9	5940
* 8249	P (1, 6 ; 20) GR	←	(0, 7 ; 21) GR	E	203.770 38	0.7	1386
* 8250	R (1, 2 + ; 4) GR	←	(0, 1 − ; 3) GR	A	203.794 21	0.0	6831



Index	upper state	lower state	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 8251	R (1, 2 ; 4) $^{GR}_{v}$	← (0, 1 $^-$; 3) $^{GR}_{v}$	A	203.794 21	−0.4	6831
* 8252	R (2, −2 ; 28) $^{GR}_{v}$	← (1, −1 ; 27) $^{GR}_{v}$	E	203.895 42	1.0	4356
* 8253	R (1, 2 ; 4) $^{GR}_{v}$	← (0, 1 $^+$; 3) $^{GR}_{v}$	A	203.953 34	0.6	7029
* 8254	R (1, 2 $^-$; 4) $^{GR}_{v}$	← (0, 1 $^+$; 3) $^{GR}_{v}$	A	203.953 34	−0.1	7029
* 8255	P (2, 0 ; 11) $^{GR}_{v}$	← (1, −1 ; 12) $^{GR}_{v}$	E	203.970 72	0.2	3069
* 8256	P (1, 1 $^-$; 13) $^{GR}_{v}$	← (0, 0 $^+$; 14) $^{GR}_{v}$	A	203.990 49	0.7	5346
* 8257	R (3, 4 ; 30) $^{GR}_{v}$	← (2, 5 ; 29) $^{GR}_{v}$	E	203.996 63	1.1	1386
* 8258	P (1, 6 ; 15) $^{GR}_{v}$	← (0, 5 ; 16) $^{GR}_{v}$	A	204.013 08	0.0	3960
* 8259	R (3, 1 ; 4) $^{GR}_{v}$	← (2, 2 ; 3) $^{GR}_{v}$	A	204.052 77	0.4	2970
* 8260	Q (1, −3 ; 22) $^{GR}_{v}$	← (0, −2 ; 22) $^{GR}_{v}$	E	204.093 88	−0.4	6039
* 8261	R (2, −5 ; 30) $^{GR}_{v}$	← (1, −4 ; 29) $^{GR}_{v}$	E	204.112 95	1.3	3366
* 8262	P (1, 3 ; 11) $^{GR}_{v}$	← (0, 4 ; 12) $^{GR}_{v}$	E	204.115 94	−0.8	6138
* 8263	R (1, 1 ; 11) $^{GR}_{v}$	← (0, 2 ; 10) $^{GR}_{v}$	E	204.119 93	0.4	5841
* 8264	R (1, 4 ; 31) $^{GR}_{v}$	← (0, 5 ; 30) $^{GR}_{v}$	E	204.280 60	0.9	1386
* 8265	P (1, 5 ; 19) $^{GR}_{v}$	← (0, 4 $^+$; 20) $^{GR}_{v}$	A	204.291 03	−0.9	2178
* 8266	P (1, 5 ; 19) $^{GR}_{v}$	← (0, 4 $^-$; 20) $^{GR}_{v}$	A	204.293 19	1.4	2079
* 8267	R (2, 6 ; 11) $^{GR}_{v}$	← (1, 5 ; 10) $^{GR}_{v}$	E	204.328 20	0.0	5940
* 8268	R (2, 3 ; 33) $^{GR}_{v}$	← (1, 2 ; 32) $^{GR}_{v}$	E	204.358 51	−0.7	5445
* 8269	Q (1, −3 ; 21) $^{GR}_{v}$	← (0, −2 ; 21) $^{GR}_{v}$	E	204.398 53	−0.6	6534
* 8270	R (2, −1 ; 28) $^{GR}_{v}$	← (1, 0 ; 27) $^{GR}_{v}$	E	204.411 82	−0.2	1881
* 8271	R (3, 1 ; 7) $^{GR}_{v}$	← (2, 0 ; 6) $^{GR}_{v}$	E	204.414 15	−0.4	6039
* 8272	R (2, 4 ; 13) $^{GR}_{v}$	← (2, 3 ; 12) $^{GR}_{v}$	E	204.437 16	−0.4	7623
* 8273	R (1, 1 ; 7) $^{GR}_{v}$	← (0, 0 ; 6) $^{GR}_{v}$	E	204.474 58	0.0	7029
* 8274	R (2, 5 ; 17) $^{GR}_{v}$	← (2, 4 ; 16) $^{GR}_{v}$	A	204.513 56	−0.5	8316
* 8275	P (3, 2 ; 19) $^{GR}_{v}$	← (3, 1 ; 20) $^{GR}_{v}$	E	204.533 49	0.7	2475
8276	R (1, 1 $^+$; 3) $^{GR}_{v}$	← (0, 2 $^-$; 2) $^{GR}_{v}$	A	204.560 09	3.6	3069
* 8277	R (1, 1 $^+$; 3) $^{GR}_{v}$	← (0, 2 ; 2) $^{GR}_{v}$	A	204.560 09	3.0	3069
* 8278	R (1, 1 $^-$; 3) $^{GR}_{v}$	← (0, 2 $^+$; 2) $^{GR}_{v}$	A	204.577 97	0.7	1881
* 8279	R (1, 1 $^-$; 3) $^{GR}_{v}$	← (0, 2 ; 2) $^{GR}_{v}$	A	204.577 97	−0.5	1881
* 8280	P (3, −1 ; 20) $^{GR}_{v}$	← (3, 0 ; 21) $^{GR}_{v}$	E	204.597 25	−0.2	1945
8281	Q (1, 11 ; 19) $^{GR}_{v}$	← (0, 12 ; 19) $^{GR}_{v}$	A	204.600 47	10.2	4257
* 8282	P (1, −4 ; 20) $^{GR}_{v}$	← (0, −3 ; 21) $^{GR}_{v}$	E	204.600 47	−1.4	4257
* 8283	P (1, 5 ; 16) $^{GR}_{v}$	← (0, 4 ; 17) $^{GR}_{v}$	E	204.648 74	−0.5	4851
8284	Q (1, 11 ; 18) $^{GR}_{v}$	← (0, 12 ; 18) $^{GR}_{v}$	A	204.664 40	6.9	1683
* 8285	Q (1, −3 ; 20) $^{GR}_{v}$	← (0, −2 ; 20) $^{GR}_{v}$	E	204.673 03	0.9	6732
* 8286	P (4, −1 ; 22) $^{GR}_{v}$	← (3, −2 ; 23) $^{GR}_{v}$	E	204.688 73	0.4	1321
* 8287	R (2, 5 ; 19) $^{GR}_{v}$	← (1, 6 ; 18) $^{GR}_{v}$	E	204.710 83	−3.2	1881
* 8288	Q (1, 11 ; 17) $^{GR}_{v}$	← (0, 12 ; 17) $^{GR}_{v}$	A	204.724 48	−0.1	1089
8289	P (2, −6 ; 11) $^{GR}_{v}$	← (1, −5 ; 12) $^{GR}_{v}$	E	204.752 99	5.8	3861
* 8290	R (2, 8 ; 9) $^{GR}_{v}$	← (1, 7 ; 8) $^{GR}_{v}$	A	204.778 20	−0.2	8712
* 8291	Q (1, 11 ; 16) $^{GR}_{v}$	← (0, 12 ; 16) $^{GR}_{v}$	A	204.782 67	4.0	1881
* 8292	R (1, −4 ; 6) $^{GR}_{v}$	← (0, −5 ; 5) $^{GR}_{v}$	E	204.795 69	3.5	1386
* 8293	Q (1, 0 ; 16) $^{GR}_{v}$	← (0, −1 ; 16) $^{GR}_{v}$	E	204.803 20	1.0	8415
* 8294	Q (1, 0 ; 17) $^{GR}_{v}$	← (0, −1 ; 17) $^{GR}_{v}$	E	204.805 85	−1.0	7151
8295	Q (1, 0 ; 15) $^{GR}_{v}$	← (0, −1 ; 15) $^{GR}_{v}$	E	204.806 90	−4.4	8217
* 8296	R (1, 2 $^+$; 21) $^{GR}_{v}$	← (0, 3 $^-$; 20) $^{GR}_{v}$	A	204.812 03	0.8	5148
* 8297	Q (1, 0 ; 18) $^{GR}_{v}$	← (0, −1 ; 18) $^{GR}_{v}$	E	204.817 87	2.8	8712
* 8298	Q (1, 0 ; 14) $^{GR}_{v}$	← (0, −1 ; 14) $^{GR}_{v}$	E	204.817 87	0.4	8712
* 8299	Q (1, 0 ; 13) $^{GR}_{v}$	← (0, −1 ; 13) $^{GR}_{v}$	E	204.833 45	−0.3	7722
* 8300	Q (1, 11 ; 15) $^{GR}_{v}$	← (0, 12 ; 15) $^{GR}_{v}$	A	204.836 22	−0.4	1881
* 8301	Q (1, 0 ; 19) $^{GR}_{v}$	← (0, −1 ; 19) $^{GR}_{v}$	E	204.838 78	0.6	7128
* 8302	Q (1, 0 ; 12) $^{GR}_{v}$	← (0, −1 ; 12) $^{GR}_{v}$	E	204.852 99	0.6	7623
* 8303	P (1, −5 ; 26) $^{GR}_{v}$	← (0, −6 ; 27) $^{GR}_{v}$	E	204.863 26	2.8	1980
* 8304	P (1, 3 $^-$; 26) $^{GR}_{v}$	← (0, 2 $^+$; 27) $^{GR}_{v}$	A	204.865 68	−0.8	2376
* 8305	Q (1, 0 ; 20) $^{GR}_{v}$	← (0, −1 ; 20) $^{GR}_{v}$	E	204.870 48	−1.7	7623
* 8306	Q (1, 0 ; 11) $^{GR}_{v}$	← (0, −1 ; 11) $^{GR}_{v}$	E	204.875 42	0.1	7821
* 8307	Q (1, 0 ; 10) $^{GR}_{v}$	← (0, −1 ; 10) $^{GR}_{v}$	E	204.899 71	−0.8	7524
8308	R (1, 2 $^-$; 21) $^{GR}_{v}$	← (0, 3 $^+$; 20) $^{GR}_{v}$	A	204.911 41	−4.3	5072
8309	R (2, −3 ; 11) $^{GR}_{v}$	← (2, −2 ; 10) $^{GR}_{v}$	E	204.912 28	−5.9	6798
* 8310	Q (1, 0 ; 21) $^{GR}_{v}$	← (0, −1 ; 21) $^{GR}_{v}$	E	204.913 92	−2.8	7205
* 8311	Q (1, −3 ; 19) $^{GR}_{v}$	← (0, −2 ; 19) $^{GR}_{v}$	E	204.918 25	0.2	6930
8312	P (2, −2 ; 11) $^{GR}_{v}$	← (1, −3 ; 12) $^{GR}_{v}$	E	204.920 97	−4.8	1683
* 8313	Q (1, 0 ; 9) $^{GR}_{v}$	← (0, −1 ; 9) $^{GR}_{v}$	E	204.925 03	−0.2	7029
* 8314	R (1, 5 ; 20) $^{GR}_{v}$	← (0, 6 ; 19) $^{GR}_{v}$	E	204.941 06	0.4	2178
* 8315	Q (1, 0 ; 8) $^{GR}_{v}$	← (0, −1 ; 8) $^{GR}_{v}$	E	204.950 42	0.0	6732
8316	R (1, 8 ; 14) $^{GR}_{v}$	← (0, 9 ; 13) $^{GR}_{v}$	A	204.968 48	−4.6	1485
* 8317	Q (1, 0 ; 22) $^{GR}_{v}$	← (0, −1 ; 22) $^{GR}_{v}$	E	204.970 51	0.1	6831
* 8318	Q (1, 0 ; 7) $^{GR}_{v}$	← (0, −1 ; 7) $^{GR}_{v}$	E	204.974 97	−0.5	6831
* 8319	Q (1, 0 ; 6) $^{GR}_{v}$	← (0, −1 ; 6) $^{GR}_{v}$	E	204.998 13	−0.2	7623
* 8320	P (1, 4 ; 20) $^{GR}_{v}$	← (0, 5 ; 21) $^{GR}_{v}$	A	204.998 13	−0.7	7623
* 8321	R (2, 4 ; 35) $^{GR}_{v}$	← (1, 3 $^-$; 34) $^{GR}_{v}$	A	205.010 12	2.7	2277
* 8322	Q (1, 0 ; 5) $^{GR}_{v}$	← (0, −1 ; 5) $^{GR}_{v}$	E	205.019 15	0.2	5841
* 8323	R (2, 4 ; 35) $^{GR}_{v}$	← (1, 3 $^+$; 34) $^{GR}_{v}$	A	205.026 16	−0.1	1980
* 8324	Q (1, 0 ; 4) $^{GR}_{v}$	← (0, −1 ; 4) $^{GR}_{v}$	E	205.037 54	0.5	5940
* 8325	Q (1, 0 ; 23) $^{GR}_{v}$	← (0, −1 ; 23) $^{GR}_{v}$	E	205.040 35	0.3	6831
* 8326	R (3, 0 ; 6) $^{GR}_{v}$	← (2, 1 ; 5) $^{GR}_{v}$	E	205.044 75	0.7	4752
* 8327	Q (1, 0 ; 3) $^{GR}_{v}$	← (0, −1 ; 3) $^{GR}_{v}$	E	205.052 63	−1.1	5148
* 8328	P (1, 3 ; 8) $^{GR}_{v}$	← (0, 4 ; 9) $^{GR}_{v}$	A	205.056 37	0.2	6138
* 8329	Q (1, 0 ; 2) $^{GR}_{v}$	← (0, −1 ; 2) $^{GR}_{v}$	E	205.064 56	1.1	4653
* 8330	P (1, −2 ; 2) $^{GR}_{v}$	← (0, −3 ; 3) $^{GR}_{v}$	E	205.067 57	−0.5	6435
* 8331	Q (1, 0 ; 1) $^{GR}_{v}$	← (0, −1 ; 1) $^{GR}_{v}$	E	205.072 40	−0.5	4356
* 8332	Q (1, 0 ; 24) $^{GR}_{v}$	← (0, −1 ; 24) $^{GR}_{v}$	E	205.124 59	−1.2	5841
* 8333	Q (1, −3 ; 18) $^{GR}_{v}$	← (0, −2 ; 18) $^{GR}_{v}$	E	205.135 63	−0.4	7029
* 8334	P (1, 8 ; 21) $^{GR}_{v}$	← (0, 7 ; 22) $^{GR}_{v}$	E	205.147 61	−0.9	2277
* 8335	R (1, −3 ; 28) $^{GR}_{v}$	← (0, −4 ; 27) $^{GR}_{v}$	E	205.167 17	0.2	2871
* 8336	R (2, −6 ; 27) $^{GR}_{v}$	← (2, −5 ; 26) $^{GR}_{v}$	E	205.176 81	0.8	3663
* 8337	Q (1, 0 ; 25) $^{GR}_{v}$	← (0, −1 ; 25) $^{GR}_{v}$	E	205.223 87	−0.9	5742
* 8338	R (1, 0 ; 7) $^{GR}_{v}$	← (0, 1 ; 6) $^{GR}_{v}$	E	205.237 81	−0.1	6237
* 8339	P (1, 4 ; 8) $^{GR}_{v}$	← (0, 3 ; 9) $^{GR}_{v}$	E	205.284 72	0.0	2970
* 8340	R (1, 2 $^+$; 5) $^{GR}_{v}$	← (0, 1 $^-$; 4) $^{GR}_{v}$	A	205.294 17	−2.3	8811
8341	R (1, 2 ; 5) $^{GR}_{v}$	← (0, 1 $^-$; 4) $^{GR}_{v}$	A	205.294 17	−4.3	8811
* 8342	Q (1, −3 ; 17) $^{GR}_{v}$	← (0, −2 ; 17) $^{GR}_{v}$	E	205.327 18	0.6	7326
* 8343	Q (1, 0 ; 26) $^{GR}_{v}$	← (0, −1 ; 26) $^{GR}_{v}$	E	205.338 79	0.4	5742
* 8344	P (1, −7 ; 16) $^{GR}_{v}$	← (0, −6 ; 17) $^{GR}_{v}$	E	205.360 23	0.1	2277
* 8345	P (1, 9 ; 28) $^{GR}_{v}$	← (0, 8 ; 29) $^{GR}_{v}$	A	205.368 99	0.6	1089
* 8346	R (2, −2 ; 29) $^{GR}_{v}$	← (1, −1 ; 28) $^{GR}_{v}$	E	205.371 60	−0.3	4158
* 8347	P (1, 6 ; 19) $^{GR}_{v}$	← (0, 7 ; 20) $^{GR}_{v}$	E	205.462 04	0.0	1485
* 8348	Q (1, 0 ; 27) $^{GR}_{v}$	← (0, −1 ; 27) $^{GR}_{v}$	E	205.469 82	−1.4	5148
* 8349	P (1, 2 ; 23) $^{GR}_{v}$	← (0, 3 ; 24) $^{GR}_{v}$	E	205.484 48	0.3	2871
* 8350	Q (1, −3 ; 16) $^{GR}_{v}$	← (0, −2 ; 16) $^{GR}_{v}$	E	205.495 04	−0.6	7326
* 8351	R (2, −5 ; 31) $^{GR}_{v}$	← (1, −4 ; 30) $^{GR}_{v}$	E	205.531 38	0.4	2673
* 8352	R (1, 2 ; 5) $^{GR}_{v}$	← (0, 1 $^+$; 4) $^{GR}_{v}$	A	205.559 68	0.3	6831
* 8353	R (1, 2 $^-$; 5) $^{GR}_{v}$	← (0, 1 $^+$; 4) $^{GR}_{v}$	A	205.559 68	0.2	6831
* 8354	P (2, 0 ; 10) $^{GR}_{v}$	← (1, −1 ; 11) $^{GR}_{v}$	E	205.566 24	−1.7	3960
* 8355	P (1, 1 $^-$; 12) $^{GR}_{v}$	← (0, 0 $^+$; 13) $^{GR}_{v}$	A	205.568 51	0.8	5643
* 8356	R (3, 1 ; 5) $^{GR}_{v}$	← (2, 2 ; 4) $^{GR}_{v}$	A	205.612 43	0.3	3960
* 8357	Q (1, 0 ; 28) $^{GR}_{v}$	← (0, −1 ; 28) $^{GR}_{v}$	E	205.617 32	−0.6	4653
* 8358	R (1, 1 ; 12) $^{GR}_{v}$	← (0, 2 ; 11) $^{GR}_{v}$	E	205.621 02	−0.2	5643
* 8359	Q (1, −3 ; 15) $^{GR}_{v}$	← (0, −2 ; 15) $^{GR}_{v}$	E	205.641 46	0.6	7623
* 8360	R (1, 4 ; 32) $^{GR}_{v}$	← (0, 5 ; 31) $^{GR}_{v}$	E	205.683 53	−2.3	1485
* 8361	P (1, 6 ; 14) $^{GR}_{v}$	← (0, 5 ; 15) $^{GR}_{v}$	A	205.689 83	0.9	4158
* 8362	P (1, 3 ; 10) $^{GR}_{v}$	← (0, 4 ; 11) $^{GR}_{v}$	E	205.750 36	−0.1	6138
* 8363	Q (1, −3 ; 14) $^{GR}_{v}$	← (0, −2 ; 14) $^{GR}_{v}$	E	205.768 75	−0.4	7722
* 8364	Q (1, 0 ; 29) $^{GR}_{v}$	← (0, −1 ; 29) $^{GR}_{v}$	E	205.781 56	−1.4	4950
* 8365	R (2, 3 ; 34) $^{GR}_{v}$	← (1, 2 ; 33) $^{GR}_{v}$	E	205.805 50	0.6	2376
* 8366	R (2, 6 ; 12) $^{GR}_{v}$	← (1, 5 ; 11) $^{GR}_{v}$	E	205.858 66	1.3	6237
* 8367	Q (1, −3 ; 13) $^{GR}_{v}$	← (0, −2 ; 13) $^{GR}_{v}$	E	205.879 08	0.2	7425
* 8368	Q (1, 0 ; 30) $^{GR}_{v}$	← (0, −1 ; 30) $^{GR}_{v}$	E	205.963 11	0.5	4851
8369	P (1, 5 ; 18) $^{GR}_{v}$	← (0, 4 $^+$; 19) $^{GR}_{v}$	A	205.963 87	−9.0	2103
* 8370	P (1, 5 ; 18) $^{GR}_{v}$	← (0, 4 $^-$; 19) $^{GR}_{v}$	A	205.965 53	−0.6	2376
* 8371	R (3, 1 ; 8) $^{GR}_{v}$	← (2, 0 ; 7) $^{GR}_{v}$	E	205.970 18	−0.6	6237
* 8372	Q (1, −3 ; 12) $^{GR}_{v}$	← (0, −2 ; 12) $^{GR}_{v}$	E	205.974 41	0.6	7920
* 8373	R (2, −1 ; 29) $^{GR}_{v}$	← (1, 0 ; 28) $^{GR}_{v}$	E	205.975 94	2.8	915
* 8374	R (2, 4 ; 14) $^{GR}_{v}$	← (2, 3 ; 13) $^{GR}_{v}$	E	205.987 99	−0.3	7623
* 8375	R (1, 1 ; 8) $^{GR}_{v}$	← (0, 0 ; 7) $^{GR}_{v}$	E	206.026 98	0.2	6930
* 8376	Q (1, −3 ; 11) $^{GR}_{v}$	← (0, −2 ; 11) $^{GR}_{v}$	E	206.056 37	−0.7	7821
* 8377	R (2, 5 ; 18) $^{GR}_{v}$	← (2, 4 ; 17) $^{GR}_{v}$	A	206.062 17	−0.4	7920
* 8378	P (1, −2 ; 27) $^{GR}_{v}$	← (0, −1 ; 28) $^{GR}_{v}$	E	206.073 45	−0.8	1287
* 8379	R (1, 1 $^+$; 4) $^{GR}_{v}$	← (0, 2 ; 3) $^{GR}_{v}$	A	206.111 13	2.4	2970
* 8380	R (1, 1 $^+$; 4) $^{GR}_{v}$	← (0, 2 $^-$; 3) $^{GR}_{v}$	A	206.111 13	0.0	2970
* 8381	Q (1, −3 ; 10) $^{GR}_{v}$	← (0, −2 ; 10) $^{GR}_{v}$	E	206.126 88	0.8	8316
8382	P (3, 2 ; 18) $^{GR}_{v}$	← (3, 1 ; 19) $^{GR}_{v}$	E	206.126 88	−5.0	8316
* 8383	R (1, 1 $^-$; 4) $^{GR}_{v}$	← (0, 2 $^+$; 3) $^{GR}_{v}$	A	206.141 21	−1.0	4059
* 8384	R (1, 1 $^-$; 4) $^{GR}_{v}$	← (0, 2 ; 3) $^{GR}_{v}$	A	206.141 21	−2.1	4059
* 8385	Q (1, −2 ; 33) $^{GR}_{v}$	← (0, −3 ; 33) $^{GR}_{v}$	E	206.151 22	0.4	2178
* 8386	Q (1, 0 ; 31) $^{GR}_{v}$	← (0, −1 ; 31) $^{GR}_{v}$	E	206.161 38	−0.7	3663
* 8387	Q (1, −3 ; 9) $^{GR}_{v}$	← (0, −2 ; 9) $^{GR}_{v}$	E	206.186 85	0.2	7722
* 8388	P (3, −1 ; 19) $^{GR}_{v}$	← (3, 0 ; 20) $^{GR}_{v}$	E	206.194 34	2.5	2772
* 8389	P (1, −4 ; 19) $^{GR}_{v}$	← (0, −3 ; 20) $^{GR}_{v}$	E	206.226 08	−0.1	4554
* 8390	Q (1, −3 ; 8) $^{GR}_{v}$	← (0, −2 ; 8) $^{GR}_{v}$	E	206.237 86	0.9	7722
* 8391	P (1, 5 ; 15) $^{GR}_{v}$	← (0, 4 ; 16) $^{GR}_{v}$	E	206.240 35	0.1	5544
* 8392	R (1, 2 $^+$; 22) $^{GR}_{v}$	← (0, 3 $^-$; 21) $^{GR}_{v}$	A	206.243 13	−1.2	5445
* 8393	R (2, 5 ; 20) $^{GR}_{v}$	← (1, 6 ; 19) $^{GR}_{v}$	E	206.270 97	−1.8	990
* 8394	Q (1, −3 ; 7) $^{GR}_{v}$	← (0, −2 ; 7) $^{GR}_{v}$	E	206.280 65	−0.6	7524
* 8395	P (4, −1 ; 21) $^{GR}_{v}$	← (3, −2 ; 22) $^{GR}_{v}$	E	206.285 07	−0.7	1683
* 8396	Q (1, −3 ; 6) $^{GR}_{v}$	← (0, −2 ; 6) $^{GR}_{v}$	E	206.316 27	−0.3	7227
* 8397	R (2, 8 ; 10) $^{GR}_{v}$	← (1, 7 ; 9) $^{GR}_{v}$	A	206.328 37	0.5	9009
* 8398	R (1, −4 ; 7) $^{GR}_{v}$	← (0, −5 ; 6) $^{GR}_{v}$	E	206.342 84	2.6	1188
* 8399	Q (1, −3 ; 5) $^{GR}_{v}$	← (0, −2 ; 5) $^{GR}_{v}$	E	206.345 45	0.1	6633
* 8400	P (2, −6 ; 10) $^{GR}_{v}$	← (1, −5 ; 11) $^{GR}_{v}$	E	206.352 96	0.4	1782



Index	upper state T (n, K ; J) ν	lower state (n, K ; J) ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 8401	Q (1, −3 ; 4) GR	← (0, −2 ; 4) GR	E	206.369 13	3.3	7128
8402	R (1, 2 −; 22) GR	← (0, 3 +; 21) GR	A	206.369 13	−6.5	7128
* 8403	Q (1, 0 ; 32) GR	← (0, −1 ; 32) GR	E	206.376 91	−1.6	4455
8404	P (1, 3 +; 26) GR	← (0, 2 −; 27) GR	A	206.376 91	−2.7	4455
* 8405	Q (1, −3 ; 3) GR	← (0, −2 ; 3) GR	E	206.386 88	−0.3	4851
* 8406	Q (1, −2 ; 32) GR	← (0, −3 ; 32) GR	E	206.436 44	−0.7	1485
8407	P (1, −5 ; 25) GR	← (0, −6 ; 26) GR	E	206.451 65	5.1	2871
* 8408	R (1, 8 ; 15) GR	← (0, 9 ; 14) GR	A	206.458 92	−0.1	1089
* 8409	R (2, −3 ; 12) GR	← (2, −2 ; 11) GR	E	206.465 37	−0.2	7722
* 8410	P (2, −2 ; 10) GR	← (1, −3 ; 11) GR	E	206.504 13	0.2	1089
* 8411	R (1, 5 ; 21) GR	← (0, 6 ; 20) GR	E	206.531 36	−0.6	3069
* 8412	P (1, 4 ; 19) GR	← (0, 5 ; 20) GR	A	206.562 65	−0.2	6435
* 8413	R (1, −3 ; 29) GR	← (0, −4 ; 28) GR	E	206.578 51	0.5	2475
* 8414	P (1, 3 −; 25) GR	← (0, 2 +; 26) GR	A	206.593 02	0.4	2475
* 8415	R (3, 0 ; 7) GR	← (2, 1 ; 6) GR	E	206.601 70	0.4	5049
* 8416	Q (1, 0 ; 33) GR	← (0, −1 ; 33) GR	E	206.610 30	0.0	6831
* 8417	P (1, 3 ; 7) GR	← (0, 4 ; 8) GR	A	206.661 80	0.1	6336
* 8418	Q (1, −2 ; 31) GR	← (0, −3 ; 31) GR	E	206.703 23	0.5	2871
* 8419	R (2, −6 ; 28) GR	← (2, −5 ; 27) GR	E	206.714 21	−0.8	3267
* 8420	P (1, 8 ; 20) GR	← (0, 7 ; 21) GR	E	206.755 60	−0.1	2673
* 8421	R (1, 0 ; 8) GR	← (0, 1 ; 7) GR	E	206.775 63	0.9	6831
* 8422	R (1, 2 +; 6) GR	← (0, 1 −; 5) GR	A	206.777 02	−0.7	6732
* 8423	R (1, 2 ; 6) GR	← (0, 1 −; 5) GR	A	206.777 02	−2.6	6732
* 8424	R (2, −2 ; 30) GR	← (1, −1 ; 29) GR	E	206.842 88	2.0	3663
* 8425	Q (1, 0 ; 34) GR	← (0, −1 ; 34) GR	E	206.858 54	0.0	2574
* 8426	P (1, 4 ; 7) GR	← (0, 3 ; 8) GR	E	206.897 08	0.3	2673
* 8427	R (2, −5 ; 32) GR	← (1, −4 ; 31) GR	E	206.939 96	−0.6	2574
* 8428	Q (1, −2 ; 30) GR	← (0, −3 ; 30) GR	E	206.954 33	−0.3	3366
* 8429	P (1, −7 ; 15) GR	← (0, −6 ; 16) GR	E	207.022 42	0.8	2376
* 8430	P (1, 9 ; 27) GR	← (0, 8 ; 28) GR	A	207.068 72	0.7	693
* 8431	R (1, 1 ; 13) GR	← (0, 2 ; 12) GR	E	207.112 34	0.9	6138
* 8432	Q (1, 0 ; 35) GR	← (0, −1 ; 35) GR	E	207.124 38	0.0	2178
* 8433	P (1, 6 ; 18) GR	← (0, 7 ; 19) GR	E	207.143 40	−1.8	1980
* 8434	P (1, 1 −; 11) GR	← (0, 0 +; 12) GR	A	207.149 42	0.4	5544
* 8435	P (2, 0 ; 9) GR	← (1, −1 ; 10) GR	E	207.160 10	2.5	4356
* 8436	R (3, 1 ; 6) GR	← (2, 2 ; 5) GR	A	207.170 29	0.2	5049
* 8437	R (1, 2 ; 6) GR	← (0, 1 +; 5) GR	A	207.174 99	1.8	7227
* 8438	R (1, 2 −; 6) GR	← (0, 1 +; 5) GR	A	207.174 99	−0.1	7227
* 8439	Q (1, −2 ; 29) GR	← (0, −3 ; 29) GR	E	207.190 34	−0.1	3663
* 8440	P (1, 2 ; 22) GR	← (0, 3 ; 23) GR	E	207.203 61	−1.0	2772
* 8441	R (2, 3 ; 35) GR	← (1, 2 ; 34) GR	E	207.245 20	0.3	2079
* 8442	P (1, 6 ; 13) GR	← (0, 5 ; 14) GR	A	207.354 70	0.1	4356
* 8443	P (1, 3 ; 9) GR	← (0, 4 ; 10) GR	E	207.376 44	−0.8	6534
* 8444	R (2, 6 ; 13) GR	← (1, 5 ; 12) GR	E	207.382 22	0.7	5742
* 8445	Q (1, 0 ; 36) GR	← (0, −1 ; 36) GR	E	207.406 91	0.0	1584
* 8446	Q (1, −2 ; 28) GR	← (0, −3 ; 28) GR	E	207.411 93	−0.1	4158
* 8447	P (1, −2 ; 26) GR	← (0, −1 ; 27) GR	E	207.520 46	1.4	1287
* 8448	R (3, 1 ; 9) GR	← (2, 0 ; 8) GR	E	207.524 59	−0.2	6534
* 8449	R (2, 4 ; 15) GR	← (2, 3 ; 14) GR	E	207.537 31	−0.5	7227
* 8450	R (2, −1 ; 30) GR	← (1, 0 ; 29) GR	E	207.542 56	−0.3	1386
* 8451	R (1, 1 ; 9) GR	← (0, 0 ; 8) GR	E	207.581 10	0.6	7128
* 8452	R (2, 5 ; 19) GR	← (2, 4 ; 18) GR	A	207.609 27	0.3	7920
* 8453	Q (1, −2 ; 27) GR	← (0, −3 ; 27) GR	E	207.619 62	0.1	4653
* 8454	P (1, 5 ; 17) GR	← (0, 4 ; 18) GR	A	207.647 83	0.1	3762
8455	R (1, 1 +; 5) GR	← (0, 2 ; 4) GR	A	207.656 56	6.2	3960
* 8456	R (1, 1 +; 5) GR	← (0, 2 −; 4) GR	A	207.656 56	−0.1	3960
* 8457	R (1, 2 +; 23) GR	← (0, 3 −; 22) GR	A	207.662 07	0.4	4554
* 8458	R (1, 1 −; 5) GR	← (0, 2 +; 4) GR	A	207.701 49	−0.4	4059
8459	R (1, 1 −; 5) GR	← (0, 2 ; 4) GR	A	207.701 49	−4.4	4059
* 8460	Q (1, 0 ; 37) GR	← (0, −1 ; 37) GR	E	207.705 39	0.0	1485
* 8461	P (3, 2 ; 17) GR	← (3, 1 ; 18) GR	E	207.720 36	−0.4	2673
* 8462	P (3, −1 ; 18) GR	← (3, 0 ; 19) GR	E	207.789 36	0.1	2277
* 8463	Q (1, −2 ; 26) GR	← (0, −3 ; 26) GR	E	207.814 13	0.7	4851
* 8464	R (1, 2 −; 23) GR	← (0, 3 +; 22) GR	A	207.821 11	−0.2	4356
* 8465	R (2, 5 ; 21) GR	← (1, 6 ; 20) GR	E	207.835 06	−0.4	822
* 8466	P (1, 5 ; 14) GR	← (0, 4 ; 15) GR	E	207.836 57	−0.3	5049
* 8467	P (1, −4 ; 18) GR	← (0, −3 ; 19) GR	E	207.852 03	−0.6	4257
* 8468	R (2, 8 ; 11) GR	← (1, 7 ; 10) GR	A	207.876 24	0.2	8811
* 8469	P (4, −1 ; 20) GR	← (3, −2 ; 21) GR	E	207.880 22	−0.6	1485
* 8470	R (1, −4 ; 8) GR	← (0, −5 ; 7) GR	E	207.886 11	0.2	1089
* 8471	P (1, 3 +; 25) GR	← (0, 2 −; 26) GR	A	207.907 55	−1.3	2574
* 8472	R (1, 8 ; 16) GR	← (0, 9 ; 15) GR	A	207.943 19	0.2	1188
* 8473	P (2, −6 ; 9) GR	← (1, −5 ; 10) GR	E	207.949 65	−0.9	1386
* 8474	R (1, −3 ; 30) GR	← (0, −4 ; 29) GR	E	207.981 49	1.3	2178
* 8475	Q (1, −2 ; 25) GR	← (0, −3 ; 25) GR	E	207.995 90	0.3	5148
* 8476	R (2, −3 ; 13) GR	← (2, −2 ; 12) GR	E	208.016 10	−0.2	7524
* 8477	Q (1, 0 ; 38) GR	← (0, −1 ; 38) GR	E	208.019 79	0.0	1287
* 8478	P (1, −5 ; 24) GR	← (0, −6 ; 25) GR	E	208.043 67	1.4	2178
* 8479	P (2, −2 ; 9) GR	← (1, −3 ; 10) GR	E	208.086 14	−0.3	1386
* 8480	R (1, 5 ; 22) GR	← (0, 6 ; 21) GR	E	208.130 30	1.2	2079
8481	P (1, 4 ; 18) GR	← (0, 5 ; 19) GR	A	208.133 77	−10.1	7524
* 8482	R (3, 0 ; 8) GR	← (2, 1 ; 7) GR	E	208.156 92	−0.2	4950
* 8483	Q (1, −2 ; 24) GR	← (0, −3 ; 24) GR	E	208.165 70	0.0	5643
* 8484	R (1, 0 ; 2) GR	← (0, −1 ; 1) GR	E	208.213 36	−1.1	1485
8485	R (1, 2 +; 7) GR	← (0, 1 −; 6) GR	A	208.242 38	−0.4	7128
* 8486	R (1, 2 ; 7) GR	← (0, 1 −; 6) GR	A	208.242 38	−3.3	7128
* 8487	R (2, −6 ; 29) GR	← (2, −5 ; 28) GR	E	208.249 27	0.3	3168
* 8488	P (1, 3 ; 6) GR	← (0, 4 ; 7) GR	A	208.263 25	−0.5	6534
* 8489	R (1, 0 ; 9) GR	← (0, 1 ; 8) GR	E	208.307 74	0.2	7128
* 8490	P (1, 3 −; 24) GR	← (0, 2 +; 25) GR	A	208.313 70	−0.1	2772
* 8491	Q (1, −2 ; 23) GR	← (0, −3 ; 23) GR	E	208.324 02	−1.4	6039
* 8492	R (2, −5 ; 33) GR	← (1, −4 ; 32) GR	E	208.338 25	1.2	2475
* 8493	P (1, 8 ; 19) GR	← (0, 7 ; 20) GR	E	208.365 67	0.2	2574
* 8494	Q (1, −2 ; 22) GR	← (0, −3 ; 22) GR	E	208.471 36	−0.7	6435
* 8495	P (1, 4 ; 6) GR	← (0, 3 ; 7) GR	E	208.503 82	−0.5	2178
* 8496	R (1, 1 ; 14) GR	← (0, 2 ; 13) GR	E	208.593 72	0.7	6039
* 8497	Q (1, −2 ; 21) GR	← (0, −3 ; 21) GR	E	208.608 36	−0.6	6435
* 8498	P (1, −7 ; 14) GR	← (0, −6 ; 15) GR	E	208.676 40	0.7	2079
* 8499	R (2, 3 ; 36) GR	← (1, 2 ; 35) GR	E	208.678 05	0.3	1584
* 8500	R (3, 1 ; 7) GR	← (2, 2 ; 6) GR	A	208.726 40	1.0	5544
* 8501	P (1, 1 −; 10) GR	← (0, 0 +; 11) GR	A	208.732 75	0.4	6237
* 8502	Q (1, −2 ; 20) GR	← (0, −3 ; 20) GR	E	208.735 43	−1.1	7029
* 8503	P (2, 0 ; 8) GR	← (1, −1 ; 9) GR	E	208.750 89	0.1	3168
* 8504	P (1, 9 ; 26) GR	← (0, 8 ; 27) GR	A	208.760 98	−0.3	527
* 8505	R (1, 2 ; 7) GR	← (0, 1 +; 6) GR	A	208.799 48	3.0	7326
* 8506	R (1, 2 −; 7) GR	← (0, 1 +; 6) GR	A	208.799 48	−0.3	7326
* 8507	P (1, 6 ; 17) GR	← (0, 7 ; 18) GR	E	208.814 94	0.5	1881
* 8508	Q (1, −2 ; 19) GR	← (0, −3 ; 19) GR	E	208.853 11	0.2	7029
* 8509	R (2, 6 ; 14) GR	← (1, 5 ; 13) GR	E	208.897 98	0.7	5445
* 8510	P (1, 2 ; 21) GR	← (0, 3 ; 22) GR	E	208.912 49	−1.6	3861
* 8511	Q (1, −2 ; 18) GR	← (0, −3 ; 18) GR	E	208.961 82	−0.4	6831
* 8512	P (1, −2 ; 25) GR	← (0, −1 ; 26) GR	E	208.980 69	0.8	891
* 8513	P (1, 3 ; 8) GR	← (0, 4 ; 9) GR	E	208.995 10	0.0	6435
* 8514	P (1, 6 ; 12) GR	← (0, 5 ; 13) GR	A	209.008 69	−0.5	4257
* 8515	Q (1, −2 ; 17) GR	← (0, −3 ; 17) GR	E	209.062 07	0.2	7029
* 8516	R (1, 2 +; 24) GR	← (0, 3 −; 23) GR	A	209.067 18	−0.4	4257
* 8517	R (3, 1 ; 10) GR	← (2, 0 ; 9) GR	E	209.077 10	−0.3	6237
* 8518	R (2, 4 ; 16) GR	← (2, 3 ; 15) GR	E	209.084 97	0.9	6930
* 8519	R (2, −1 ; 31) GR	← (1, 0 ; 30) GR	E	209.113 33	−0.6	990
* 8520	R (1, 1 ; 10) GR	← (0, 0 ; 9) GR	E	209.138 53	−0.1	7128
* 8521	Q (1, −2 ; 16) GR	← (0, −3 ; 16) GR	E	209.154 49	1.9	9009
* 8522	R (2, 5 ; 20) GR	← (2, 4 ; 19) GR	A	209.154 49	−0.5	9009
* 8523	R (1, 1 +; 6) GR	← (0, 2 −; 5) GR	A	209.196 25	0.3	4653
* 8524	Q (1, −2 ; 15) GR	← (0, −3 ; 15) GR	E	209.238 87	0.4	7425
* 8525	R (1, 1 −; 6) GR	← (0, 2 +; 5) GR	A	209.258 26	0.8	4653
* 8526	R (1, 2 −; 24) GR	← (0, 3 +; 23) GR	A	209.265 60	0.0	3861
* 8527	P (1, 5 ; 16) GR	← (0, 4 ; 17) GR	A	209.309 55	0.5	4752
* 8528	P (3, 2 ; 16) GR	← (3, 1 ; 17) GR	E	209.312 01	−0.8	3267
* 8529	Q (1, −2 ; 14) GR	← (0, −3 ; 14) GR	E	209.316 17	0.5	7623
* 8530	R (1, −3 ; 31) GR	← (0, −4 ; 30) GR	E	209.375 82	0.3	1980
* 8531	P (3, −1 ; 17) GR	← (3, 0 ; 18) GR	E	209.383 55	0.4	2673
* 8532	Q (1, −2 ; 13) GR	← (0, −3 ; 13) GR	E	209.386 67	0.3	7524
* 8533	R (2, 5 ; 22) GR	← (1, 6 ; 21) GR	E	209.403 32	−2.3	990
* 8534	R (2, 8 ; 12) GR	← (1, 7 ; 11) GR	A	209.421 77	−0.1	8910
* 8535	R (1, 8 ; 17) GR	← (0, 9 ; 16) GR	A	209.421 77	−0.8	8910
* 8536	R (1, −4 ; 9) GR	← (0, −5 ; 8) GR	E	209.426 01	0.4	1683
* 8537	P (1, 5 ; 13) GR	← (0, 4 ; 14) GR	E	209.436 52	−0.4	5148
8538	P (1, 3 +; 24) GR	← (0, 2 −; 25) GR	A	209.450 44	7.6	8316
* 8539	Q (1, −2 ; 12) GR	← (0, −3 ; 12) GR	E	209.450 44	−1.8	8316
* 8540	P (4, −1 ; 19) GR	← (3, −2 ; 20) GR	E	209.474 74	1.2	2970
* 8541	P (1, −4 ; 17) GR	← (0, −3 ; 18) GR	E	209.478 07	−0.3	4851
* 8542	Q (1, −2 ; 11) GR	← (0, −3 ; 11) GR	E	209.508 35	−0.8	7425
* 8543	P (2, −6 ; 8) GR	← (1, −5 ; 9) GR	E	209.542 93	0.0	1089
* 8544	Q (1, −2 ; 10) GR	← (0, −3 ; 10) GR	E	209.560 29	0.3	7425
* 8545	R (2, −3 ; 14) GR	← (2, −2 ; 13) GR	E	209.565 22	0.0	7128
* 8546	Q (1, −2 ; 9) GR	← (0, −3 ; 9) GR	E	209.606 46	−0.7	7623
* 8547	P (1, −5 ; 23) GR	← (0, −6 ; 24) GR	E	209.639 88	−0.2	2574
* 8548	Q (1, −2 ; 8) GR	← (0, −3 ; 8) GR	E	209.647 43	−0.4	7326
* 8549	P (2, −2 ; 8) GR	← (1, −3 ; 9) GR	E	209.667 57	1.0	1584
* 8550	Q (1, −2 ; 7) GR	← (0, −3 ; 7) GR	E	209.683 23	0.0	7128



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 8551	R (1, 2 +; 8) GR	←	(0, 1 −; 7) GR	A	209.690 23	0.4	7227
8552	R (1, 2 ; 8) GR	←	(0, 1 −; 7) GR	A	209.690 23	−6.9	7227
* 8553	R (3, 0 ; 9) GR	←	(2, 1 ; 8) GR	E	209.710 42	0.1	5841
* 8554	P (1, 4 ; 17) GR	←	(0, 5 ; 18) GR	A	209.713 73	1.9	8910
8555	Q (1, −2 ; 6) GR	←	(0, −3 ; 6) GR	E	209.713 73	−4.1	8910
* 8556	R (2, −5 ; 34) GR	←	(1, −4 ; 33) GR	E	209.725 93	0.6	1980
* 8557	R (1, 5 ; 23) GR	←	(0, 6 ; 22) GR	E	209.737 82	0.8	2178
* 8558	Q (1, −2 ; 5) GR	←	(0, −3 ; 5) GR	E	209.740 22	0.4	6633
* 8559	Q (1, −2 ; 4) GR	←	(0, −3 ; 4) GR	E	209.761 77	−0.2	5940
* 8560	R (1, 0 ; 3) GR	←	(0, −1 ; 2) GR	E	209.775 99	0.9	2871
* 8561	Q (1, −2 ; 3) GR	←	(0, −3 ; 3) GR	E	209.778 76	−0.9	4554
* 8562	R (2, −6 ; 30) GR	←	(2, −5 ; 29) GR	E	209.782 00	1.3	2574
* 8563	R (1, 0 ; 10) GR	←	(0, 1 ; 9) GR	E	209.834 06	−0.8	7029
* 8564	P (1, 3 ; 5) GR	←	(0, 4 ; 6) GR	A	209.860 86	−0.1	6237
* 8565	P (1, 8 ; 18) GR	←	(0, 7 ; 19) GR	E	209.977 84	−0.1	3069
* 8566	P (1, 3 −; 23) GR	←	(0, 2 +; 24) GR	A	210.027 46	0.2	2970
* 8567	R (1, 1 ; 15) GR	←	(0, 2 ; 14) GR	E	210.065 31	0.4	6435
* 8568	P (1, 4 ; 5) GR	←	(0, 3 ; 6) GR	E	210.105 46	0.7	1485
* 8569	R (2, 3 ; 37) GR	←	(1, 2 ; 36) GR	E	210.105 46	0.0	1485
* 8570	R (3, 1 ; 8) GR	←	(2, 2 ; 7) GR	A	210.280 63	−0.9	6138
* 8571	P (1, 1 −; 9) GR	←	(0, 0 +; 10) GR	A	210.317 68	−0.7	5742
* 8572	P (1, −7 ; 13) GR	←	(0, −6 ; 14) GR	E	210.322 48	−0.5	2475
* 8573	P (2, 0 ; 7) GR	←	(1, −1 ; 8) GR	E	210.339 71	−0.3	3267
* 8574	R (2, 6 ; 15) GR	←	(1, 5 ; 14) GR	E	210.405 29	0.6	5940
8575	R (1, 2 ; 8) GR	←	(0, 1 +; 7) GR	A	210.433 22	4.5	7227
* 8576	R (1, 2 −; 8) GR	←	(0, 1 +; 7) GR	A	210.433 22	−0.3	7227
* 8577	P (1, 9 ; 25) GR	←	(0, 8 ; 26) GR	A	210.446 77	2.3	1188
8578	P (1, −2 ; 24) GR	←	(0, −1 ; 25) GR	E	210.455 00	4.2	990
* 8579	R (1, 2 +; 25) GR	←	(0, 3 −; 24) GR	A	210.457 78	0.0	4257
* 8580	P (1, 6 ; 16) GR	←	(0, 7 ; 17) GR	E	210.476 60	−0.2	2277
* 8581	P (1, 3 ; 7) GR	←	(0, 4 ; 8) GR	E	210.607 07	0.1	6534
* 8582	P (1, 2 ; 20) GR	←	(0, 3 ; 21) GR	E	210.611 69	−0.7	3564
* 8583	R (3, 1 ; 11) GR	←	(2, 0 ; 10) GR	E	210.628 04	1.3	6336
* 8584	R (2, 4 ; 17) GR	←	(2, 3 ; 16) GR	E	210.630 93	0.0	7029
* 8585	P (1, 6 ; 11) GR	←	(0, 5 ; 12) GR	A	210.652 96	1.5	4059
* 8586	R (2, −1 ; 32) GR	←	(1, 0 ; 31) GR	E	210.687 99	0.4	693
* 8587	R (2, 5 ; 21) GR	←	(2, 4 ; 20) GR	A	210.698 57	0174	8316
* 8588	R (1, 1 ; 11) GR	←	(0, 0 ; 10) GR	E	210.701 11	−0.6	7524
* 8589	R (1, 2 −; 25) GR	←	(0, 3 +; 24) GR	A	210.703 28	1.1	4059
* 8590	R (1, 1 +; 7) GR	←	(0, 2 −; 6) GR	A	210.730 17	0.4	5148
* 8591	R (1, −3 ; 32) GR	←	(0, −4 ; 31) GR	E	210.761 40	0.4	1485
* 8592	R (1, 1 −; 7) GR	←	(0, 2 +; 6) GR	A	210.811 13	0.2	5445
* 8593	R (1, 8 ; 18) GR	←	(0, 9 ; 17) GR	A	210.895 89	0.2	1188
* 8594	P (3, 2 ; 15) GR	←	(3, 1 ; 16) GR	E	210.902 63	−0.2	2970
* 8595	R (1, −4 ; 10) GR	←	(0, −5 ; 9) GR	E	210.962 51	0.8	2673
* 8596	R (2, 8 ; 13) GR	←	(1, 7 ; 12) GR	A	210.965 06	0.0	8811
* 8597	P (1, 5 ; 15) GR	←	(0, 4 ; 16) GR	A	210.965 06	−0.7	8811
* 8598	P (3, −1 ; 16) GR	←	(3, 0 ; 17) GR	E	210.976 55	−0.1	3267
* 8599	R (2, 5 ; 23) GR	←	(1, 6 ; 22) GR	E	210.976 55	−1.4	3267
* 8600	P (1, 3 +; 23) GR	←	(0, 2 −; 24) GR	A	211.002 26	−0.1	2970
* 8601	P (1, 5 ; 12) GR	←	(0, 4 ; 13) GR	E	211.039 23	0.4	4950
* 8602	P (4, −1 ; 18) GR	←	(3, −2 ; 19) GR	E	211.066 96	−1.4	1881
* 8603	R (2, −5 ; 35) GR	←	(1, −4 ; 34) GR	E	211.103 08	−0.9	3226
* 8604	P (1, −4 ; 16) GR	←	(0, −3 ; 17) GR	E	211.103 72	−0.8	5247
* 8605	R (1, −3 ; 3) GR	←	(0, −2 ; 2) GR	E	211.110 84	−1.2	7227
* 8606	R (2, −3 ; 15) GR	←	(2, −2 ; 14) GR	E	211.112 71	0.2	6930
* 8607	R (1, 2 +; 9) GR	←	(0, 1 −; 8) GR	A	211.120 94	0.7	7524
* 8608	P (1, −5 ; 22) GR	←	(0, −6 ; 23) GR	E	211.239 70	−0.4	2970
* 8609	P (2, −2 ; 7) GR	←	(1, −3 ; 8) GR	E	211.248 10	0.5	1584
* 8610	R (3, 0 ; 10) GR	←	(2, 1 ; 9) GR	E	211.262 05	−0.6	5445
* 8611	P (1, 4 ; 16) GR	←	(0, 5 ; 17) GR	A	211.298 27	0.1	7128
* 8612	R (2, −6 ; 31) GR	←	(2, −5 ; 30) GR	E	211.312 28	1.3	2277
* 8613	R (1, 0 ; 4) GR	←	(0, −1 ; 3) GR	E	211.334 42	0.2	3267
* 8614	R (1, 0 ; 11) GR	←	(0, 1 ; 10) GR	E	211.354 41	0.2	7326
* 8615	R (1, 5 ; 24) GR	←	(0, 6 ; 23) GR	E	211.354 41	−2.0	7326
* 8616	P (1, 3 ; 4) GR	←	(0, 4 ; 5) GR	A	211.454 52	−0.4	6237
* 8617	R (1, 1 ; 16) GR	←	(0, 2 ; 15) GR	E	211.527 68	−0.1	6237
* 8618	P (1, 8 ; 17) GR	←	(0, 7 ; 18) GR	E	211.591 73	−0.3	2475
* 8619	P (1, 4 ; 4) GR	←	(0, 3 ; 5) GR	E	211.702 05	1.5	891
* 8620	P (1, 3 −; 22) GR	←	(0, 2 +; 23) GR	A	211.734 18	0.2	3366
* 8621	R (1, 2 +; 26) GR	←	(0, 3 −; 25) GR	A	211.832 95	1.2	7227
* 8622	R (3, 1 ; 9) GR	←	(2, 2 ; 8) GR	A	211.832 95	−0.2	7227
* 8623	R (2, 6 ; 16) GR	←	(1, 5 ; 15) GR	E	211.903 46	1.8	7425
* 8624	P (1, 1 −; 8) GR	←	(0, 0 +; 9) GR	A	211.903 46	−0.4	7425
* 8625	P (2, 0 ; 6) GR	←	(1, −1 ; 7) GR	E	211.926 30	0.0	3663

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 8626	P (1, −2 ; 23) GR	←	(0, −1 ; 24) GR	E	211.941 89	1.4	2277
* 8627	P (1, −7 ; 12) GR	←	(0, −6 ; 13) GR	E	211.961 81	1.4	2079
* 8628	R (1, 2 −; 9) GR	←	(0, 1 +; 8) GR	A	212.076 32	0.7	7425
* 8629	P (1, 9 ; 24) GR	←	(0, 8 ; 25) GR	A	212.125 28	0.0	1089
* 8630	P (1, 6 ; 15) GR	←	(0, 7 ; 16) GR	E	212.129 39	0.3	2970
* 8631	R (1, 2 −; 26) GR	←	(0, 3 +; 25) GR	A	212.134 12	−0.7	3564
* 8632	R (1, −3 ; 33) GR	←	(0, −4 ; 32) GR	E	212.137 85	−0.3	1386
* 8633	R (2, 4 ; 18) GR	←	(2, 3 ; 17) GR	E	212.175 43	1.2	7029
* 8634	R (3, 1 ; 12) GR	←	(2, 0 ; 11) GR	E	212.176 76	0.3	5979
* 8635	P (1, 3 ; 6) GR	←	(0, 4 ; 7) GR	E	212.212 96	−1.0	6732
* 8636	R (2, 5 ; 22) GR	←	(2, 4 ; 21) GR	A	212.240 65	−0.6	7425
* 8637	R (1, 1 +; 8) GR	←	(0, 2 −; 7) GR	A	212.258 39	0.7	5544
* 8638	R (1, 1 ; 12) GR	←	(0, 0 ; 11) GR	E	212.270 86	0.2	7029
* 8639	P (1, 6 ; 10) GR	←	(0, 5 ; 11) GR	A	212.288 00	−0.1	4059
* 8640	P (1, 2 ; 19) GR	←	(0, 3 ; 20) GR	E	212.301 50	−0.1	3465
* 8641	R (1, 8 ; 19) GR	←	(0, 9 ; 18) GR	A	212.350 47	1.4	3366
* 8642	R (1, 1 −; 8) GR	←	(0, 2 +; 7) GR	A	212.359 88	1.0	5742
* 8643	R (2, −5 ; 36) GR	←	(1, −4 ; 35) GR	E	212.468 46	0.8	1188
* 8644	P (3, 2 ; 14) GR	←	(3, 1 ; 15) GR	E	212.492 00	−0.4	3069
* 8645	R (1, −4 ; 11) GR	←	(0, −5 ; 10) GR	E	212.495 51	0.2	1980
* 8646	R (2, 8 ; 14) GR	←	(1, 7 ; 13) GR	A	212.505 79	0.9	8514
* 8647	R (1, 2 +; 10) GR	←	(0, 1 −; 9) GR	A	212.534 53	0.1	7227
* 8648	P (1, 3 +; 22) GR	←	(0, 2 −; 23) GR	A	212.564 42	−1.0	3663
* 8649	P (3, −1 ; 15) GR	←	(3, 0 ; 16) GR	E	212.567 96	−0.7	2673
* 8650	P (1, 5 ; 14) GR	←	(0, 4 ; 15) GR	A	212.614 06	−2.5	4653
* 8651	P (1, 5 ; 11) GR	←	(0, 4 ; 12) GR	E	212.643 74	0.3	4752
* 8652	R (2, −3 ; 16) GR	←	(2, −2 ; 15) GR	E	212.658 42	0.0	7227
8653	P (4, −1 ; 17) GR	←	(3, −2 ; 18) GR	E	212.658 42	−3.2	7227
* 8654	R (1, −3 ; 4) GR	←	(0, −2 ; 3) GR	E	212.667 80	0.1	7326
* 8655	P (1, −4 ; 15) GR	←	(0, −3 ; 16) GR	E	212.728 69	−0.5	5049
* 8656	R (3, 0 ; 11) GR	←	(2, 1 ; 10) GR	E	212.811 83	0.8	5445
* 8657	P (2, −2 ; 6) GR	←	(1, −3 ; 7) GR	E	212.827 68	0.8	1386
* 8658	R (2, −6 ; 32) GR	←	(2, −5 ; 31) GR	E	212.839 93	0.9	2079
* 8659	P (1, −5 ; 21) GR	←	(0, −6 ; 22) GR	E	212.842 57	−1.3	3168
* 8660	R (1, 0 ; 12) GR	←	(0, 1 ; 11) GR	E	212.868 17	0.9	7326
* 8661	P (1, 4 ; 15) GR	←	(0, 5 ; 16) GR	A	212.888 50	2.2	7920
8662	R (1, 0 ; 5) GR	←	(0, −1 ; 4) GR	E	212.888 50	−6.8	7920
* 8663	Q (1, 7 ; 28) GR	←	(0, 8 ; 28) GR	A	212.899 98	0.3	1188
* 8664	P (1, 2 ; 30) GR	←	(0, 1 ; 31) GR	E	212.930 77	1.7	1168
8665	R (1, 5 ; 25) GR	←	(0, 6 ; 24) GR	E	212.981 70	7.8	8316
* 8666	R (1, 1 ; 17) GR	←	(0, 2 ; 16) GR	E	212.981 70	−0.1	8316
* 8667	Q (1, 7 ; 27) GR	←	(0, 8 ; 27) GR	A	213.001 58	−1.3	1287
* 8668	P (1, 3 ; 3) GR	←	(0, 4 ; 4) GR	A	213.044 36	0.3	6534
* 8669	Q (1, 7 ; 26) GR	←	(0, 8 ; 26) GR	A	213.100 28	2.5	1881
* 8670	R (1, 2 +; 27) GR	←	(0, 3 −; 26) GR	A	213.190 38	0.5	3465
* 8671	Q (1, 7 ; 25) GR	←	(0, 8 ; 25) GR	A	213.194 84	0.4	2079
* 8672	P (1, 8 ; 16) GR	←	(0, 7 ; 17) GR	E	213.206 93	−0.2	2475
* 8673	Q (1, 7 ; 24) GR	←	(0, 8 ; 24) GR	A	213.286 13	0.1	1782
* 8674	Q (1, 7 ; 23) GR	←	(0, 8 ; 23) GR	A	213.373 97	0.2	3762
* 8675	R (3, 1 ; 10) GR	←	(2, 2 ; 9) GR	A	213.383 65	0.8	6237
* 8676	R (2, 6 ; 17) GR	←	(1, 5 ; 16) GR	E	213.390 92	0.5	5148
8677	P (1, 3 ; 21) GR	←	(0, 2 +; 22) GR	A	213.433 65	4.9	3465
* 8678	P (1, −2 ; 22) GR	←	(0, −1 ; 23) GR	E	213.441 61	−0.5	1485
* 8679	Q (1, 7 ; 22) GR	←	(0, 8 ; 22) GR	A	213.458 25	−0.8	2277
* 8680	P (1, 1 −; 7) GR	←	(0, 0 +; 8) GR	A	213.490 00	0.1	5643
8681	R (1, −3 ; 34) GR	←	(0, −4 ; 33) GR	E	213.504 53	−5.3	1980
* 8682	P (2, 0 ; 5) GR	←	(1, −1 ; 6) GR	E	213.510 64	−0.1	2772
* 8683	Q (1, 7 ; 21) GR	←	(0, 8 ; 21) GR	A	213.539 01	−0.3	2574
* 8684	P (1, −7 ; 11) GR	←	(0, −6 ; 12) GR	E	213.594 12	−0.6	1980
* 8685	Q (1, 7 ; 20) GR	←	(0, 8 ; 20) GR	A	213.616 37	0.1	2574
* 8686	Q (1, 7 ; 19) GR	←	(0, 8 ; 19) GR	A	213.690 26	2.4	3267
* 8687	R (2, 4 ; 19) GR	←	(2, 3 ; 18) GR	E	213.717 85	−1.1	6930
* 8688	R (3, 1 ; 13) GR	←	(2, 0 ; 12) GR	E	213.723 81	0.2	6435
* 8689	R (1, 2 −; 10) GR	←	(0, 1 +; 9) GR	A	213.728 84	−0.2	7326
* 8690	Q (1, 7 ; 18) GR	←	(0, 8 ; 18) GR	A	213.760 13	−0.7	2871
* 8691	P (1, 6 ; 14) GR	←	(0, 7 ; 15) GR	E	213.773 80	0.8	4851
* 8692	R (1, 1 +; 9) GR	←	(0, 2 −; 8) GR	A	213.780 98	1.0	7821
* 8693	R (2, 5 ; 23) GR	←	(2, 4 ; 22) GR	A	213.780 98	0.8	7821
* 8694	P (1, 9 ; 23) GR	←	(0, 8 ; 24) GR	A	213.797 47	0.2	1188
* 8695	P (1, 3 ; 5) GR	←	(0, 4 ; 6) GR	E	213.813 40	−0.9	7029
* 8696	R (1, 8 ; 20) GR	←	(0, 9 ; 19) GR	A	213.816 02	−2.0	1683
* 8697	R (2, −5 ; 37) GR	←	(1, −4 ; 36) GR	E	213.823 30	1.0	1089
* 8698	Q (1, 7 ; 17) GR	←	(0, 8 ; 17) GR	A	213.826 86	0.4	3366
* 8699	R (1, 1 ; 13) GR	←	(0, 0 ; 12) GR	E	213.849 47	0.6	6930
* 8700	Q (1, 7 ; 16) GR	←	(0, 8 ; 16) GR	A	213.889 56	−1.1	3564



Index	upper state T (n, K ; J) ν	←	lower state (n, K ; J) ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 8701	R (1, 1 $^-$; 9) GR	←	(0, 2 $^+$; 8) GR	A	213.904 13	−0.1	5841
* 8702	P (1, 6 ; 9) GR	←	(0, 5 ; 10) GR	A	213.914 97	0.5	3861
* 8703	R (1, 2 $^+$; 11) GR	←	(0, 1 $^-$; 10) GR	A	213.931 23	0.1	7623
* 8704	Q (1, 7 ; 15) GR	←	(0, 8 ; 15) GR	A	213.949 05	0.7	3960
* 8705	P (1, 2 ; 18) GR	←	(0, 3 ; 19) GR	E	213.982 32	0.5	3663
* 8706	Q (1, 7 ; 14) GR	←	(0, 8 ; 14) GR	A	214.004 57	0.4	3465
* 8707	R (1, −4 ; 12) GR	←	(0, −5 ; 11) GR	E	214.025 40	−0.5	2277
* 8708	R (2, 8 ; 15) GR	←	(1, 7 ; 14) GR	A	214.044 00	−0.8	8514
* 8709	Q (1, 7 ; 13) GR	←	(0, 8 ; 13) GR	A	214.056 59	−1.7	3564
* 8710	P (3, 2 ; 13) GR	←	(3, 1 ; 14) GR	E	214.080 07	0.1	3168
* 8711	Q (1, 7 ; 12) GR	←	(0, 8 ; 12) GR	A	214.104 89	−1.1	3465
* 8712	P (1, 3 ; 21) GR	←	(0, 2 $^-$; 22) GR	A	214.135 34	−5.0	3564
* 8713	Q (1, 7 ; 11) GR	←	(0, 8 ; 11) GR	A	214.149 67	−0.1	3267
* 8714	P (3, −1 ; 14) GR	←	(3, 0 ; 15) GR	E	214.158 13	0.9	3069
* 8715	Q (1, 7 ; 10) GR	←	(0, 8 ; 10) GR	A	214.191 03	3.3	5148
* 8716	R (2, −3 ; 17) GR	←	(2, −2 ; 16) GR	E	214.202 33	0.2	6831
* 8717	R (1, −3 ; 5) GR	←	(0, −2 ; 4) GR	E	214.219 67	0.4	7029
* 8718	Q (1, 7 ; 9) GR	←	(0, 8 ; 9) GR	A	214.227 86	−0.3	2376
* 8719	P (1, 5 ; 10) GR	←	(0, 4 ; 11) GR	E	214.249 24	0.7	5148
* 8720	P (4, −1 ; 16) GR	←	(3, −2 ; 17) GR	E	214.249 24	−0.6	5148
* 8721	P (1, 5 ; 13) GR	←	(0, 4 ; 14) GR	A	214.257 19	0.5	4356
* 8722	Q (1, 7 ; 8) GR	←	(0, 8 ; 8) GR	A	214.261 51	0.3	1782
* 8723	P (1, −4 ; 14) GR	←	(0, −3 ; 15) GR	E	214.352 60	0.5	5049
* 8724	R (3, 0 ; 12) GR	←	(2, 1 ; 11) GR	E	214.359 62	0.4	5445
* 8725	R (2, −6 ; 33) GR	←	(2, −5 ; 32) GR	E	214.364 63	−2.0	1782
* 8726	R (1, 0 ; 13) GR	←	(0, 1 ; 12) GR	E	214.375 11	−0.1	7029
* 8727	P (2, −2 ; 5) GR	←	(1, −3 ; 6) GR	E	214.406 18	−0.1	1485
* 8728	R (1, 1 ; 18) GR	←	(0, 2 ; 17) GR	E	214.428 81	−0.7	6039
* 8729	R (1, 0 ; 6) GR	←	(0, −1 ; 5) GR	E	214.440 59	−0.6	4059
* 8730	P (1, −5 ; 20) GR	←	(0, −6 ; 21) GR	E	214.448 19	0.6	3267
* 8731	P (1, 4 ; 14) GR	←	(0, 5 ; 15) GR	A	214.482 63	0.3	7029
* 8732	R (1, 2 $^+$; 28) GR	←	(0, 3 $^-$; 27) GR	A	214.529 64	−1.0	3366
8733	P (1, 2 ; 29) GR	←	(0, 1 ; 30) GR	E	214.554 60	−8.0	9306
* 8734	R (1, 5 ; 26) GR	←	(0, 6 ; 25) GR	E	214.616 80	1.4	1188
* 8735	P (1, 8 ; 15) GR	←	(0, 7 ; 16) GR	E	214.823 13	0.5	2376
* 8736	R (1, −3 ; 35) GR	←	(0, −4 ; 34) GR	E	214.862 17	0.0	990
* 8737	R (2, 6 ; 18) GR	←	(1, 5 ; 17) GR	E	214.867 70	0.9	4653
* 8738	R (3, 1 ; 11) GR	←	(2, 2 ; 10) GR	A	214.932 32	−2.6	5841
* 8739	P (1, −2 ; 21) GR	←	(0, −1 ; 22) GR	E	214.953 89	−0.7	1881
* 8740	P (1, 1 $^-$; 6) GR	←	(0, 0 $^+$; 7) GR	A	215.076 19	0.2	5544
* 8741	P (2, 0 ; 4) GR	←	(1, −1 ; 5) GR	E	215.092 75	−0.2	2673
* 8742	P (1, 3 ; 20) GR	←	(0, 2 $^+$; 21) GR	A	215.125 98	3.2	4356
* 8743	P (1, −1 ; 30) GR	←	(0, −2 ; 31) GR	E	215.134 19	4.2	1584
* 8744	R (2, −5 ; 38) GR	←	(1, −4 ; 37) GR	E	215.166 41	0.4	891
* 8745	P (1, −7 ; 10) GR	←	(0, −6 ; 11) GR	E	215.220 21	0.1	1485
* 8746	R (2, 4 ; 20) GR	←	(2, 3 ; 19) GR	E	215.258 63	0.6	6633
* 8747	R (3, 1 ; 14) GR	←	(2, 0 ; 13) GR	E	215.268 72	0.3	6336
* 8748	R (1, 8 ; 21) GR	←	(0, 9 ; 20) GR	A	215.271 03	−0.4	1584
* 8749	R (1, 1 $^+$; 10) GR	←	(0, 2 $^-$; 9) GR	A	215.297 91	0.5	5940
* 8750	R (1, 2 $^+$; 12) GR	←	(0, 1 $^-$; 11) GR	A	215.311 37	−0.3	7425
* 8751	R (2, 5 ; 24) GR	←	(2, 4 ; 23) GR	A	215.319 66	0.8	7128
* 8752	Q (1, 4 ; 32) GR	←	(0, 3 ; 32) GR	E	215.352 82	−0.7	1980
* 8753	R (1, 2 $^-$; 11) GR	←	(0, 1 $^+$; 10) GR	A	215.391 08	−0.2	7524
* 8754	P (2, −6 ; 14) GR	←	(1, −7 ; 15) GR	E	215.402 33	1.4	1881
* 8755	P (1, 3 ; 4) GR	←	(0, 4 ; 5) GR	E	215.408 83	0.6	6831
* 8756	P (1, 6 ; 13) GR	←	(0, 7 ; 14) GR	E	215.410 15	−0.2	3415
* 8757	R (1, 1 ; 14) GR	←	(0, 0 ; 13) GR	E	215.438 95	0.8	6831
* 8758	R (1, 1 $^-$; 10) GR	←	(0, 2 $^+$; 9) GR	A	215.443 39	−0.5	6435
* 8759	P (1, 9 ; 22) GR	←	(0, 8 ; 23) GR	A	215.463 40	−1.1	1485
* 8760	P (1, 6 ; 8) GR	←	(0, 5 ; 9) GR	A	215.534 30	−0.1	2871
* 8761	R (1, −4 ; 13) GR	←	(0, −5 ; 12) GR	E	215.552 21	−0.2	2376
* 8762	R (2, 8 ; 16) GR	←	(1, 7 ; 15) GR	A	215.579 67	0.0	8514
* 8763	P (1, 2 ; 17) GR	←	(0, 3 ; 18) GR	E	215.654 69	0.1	4851
* 8764	P (3, 2 ; 12) GR	←	(3, 1 ; 13) GR	E	215.666 83	0.0	3168
* 8765	Q (1, 4 ; 31) GR	←	(0, 3 ; 31) GR	E	215.710 30	−0.7	2574
* 8766	P (1, 3 ; 20) GR	←	(0, 2 $^-$; 21) GR	A	215.713 85	−5.2	3861
* 8767	R (2, −3 ; 18) GR	←	(2, −2 ; 17) GR	E	215.744 61	0.7	7029
* 8768	P (3, −1 ; 13) GR	←	(3, 0 ; 14) GR	E	215.747 05	0.5	3366
* 8769	R (1, −3 ; 6) GR	←	(0, −2 ; 5) GR	E	215.765 95	0.0	7425
* 8770	P (4, −1 ; 15) GR	←	(3, −2 ; 16) GR	E	215.838 61	0.1	2178
8771	R (1, 2 $^+$; 29) GR	←	(0, 3 $^-$; 28) GR	A	215.849 49	1.6	4554
* 8772	P (1, 5 ; 9) GR	←	(0, 4 ; 10) GR	E	215.854 75	0.3	3960
* 8773	R (1, 1 ; 19) GR	←	(0, 2 ; 18) GR	E	215.870 69	−0.8	6237
* 8774	R (1, 0 ; 14) GR	←	(0, 1 ; 13) GR	E	215.874 88	0.1	7326
* 8775	R (2, −6 ; 34) GR	←	(2, −5 ; 33) GR	E	215.886 90	1.2	1386

Index	upper state T (n, K ; J) ν	←	lower state (n, K ; J) ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 8776	P (1, 5 ; 12) GR	←	(0, 4 ; 13) GR	A	215.893 80	−0.4	4455
* 8777	R (3, 0 ; 13) GR	←	(2, 1 ; 12) GR	E	215.905 49	0.6	5544
* 8778	P (1, −4 ; 13) GR	←	(0, −3 ; 14) GR	E	215.974 89	0.6	5148
* 8779	P (2, −2 ; 4) GR	←	(1, −3 ; 5) GR	E	215.983 46	−0.6	1485
* 8780	R (1, 0 ; 7) GR	←	(0, −1 ; 6) GR	E	215.989 09	−0.1	4356
* 8781	Q (1, 4 ; 30) GR	←	(0, 3 ; 30) GR	E	216.049 28	0.1	3168
* 8782	P (1, −5 ; 19) GR	←	(0, −6 ; 20) GR	E	216.055 90	0.2	4158
* 8783	R (1, −2 ; 4) GR	←	(0, −3 ; 3) GR	E	216.060 23	0.7	1881
* 8784	P (1, 4 ; 13) GR	←	(0, 5 ; 14) GR	A	216.080 42	−0.7	7425
* 8785	P (1, 2 ; 28) GR	←	(0, 1 ; 29) GR	E	216.189 93	−0.9	1089
* 8786	R (1, 5 ; 27) GR	←	(0, 6 ; 26) GR	E	216.261 89	0.2	3168
* 8787	R (2, 6 ; 19) GR	←	(1, 5 ; 18) GR	E	216.332 49	−0.4	4554
* 8788	Q (1, 4 ; 29) GR	←	(0, 3 ; 29) GR	E	216.367 30	2.3	3366
* 8789	P (1, 8 ; 14) GR	←	(0, 7 ; 15) GR	E	216.439 69	0.4	2376
8790	P (1, −2 ; 20) GR	←	(0, −1 ; 21) GR	E	216.478 42	4.3	5742
* 8791	R (3, 1 $^+$; 12) GR	←	(2, 2 ; 11) GR	A	216.478 42	1.9	5742
* 8792	R (3, 1 $^-$; 12) GR	←	(2, 2 ; 11) GR	A	216.479 62	0.6	4621
* 8793	R (2, −5 ; 39) GR	←	(1, −4 ; 38) GR	E	216.498 35	0.0	1386
* 8794	P (1, 1 $^-$; 5) GR	←	(0, 0 $^+$; 6) GR	A	216.661 89	0.9	5346
* 8795	Q (1, 4 ; 28) GR	←	(0, 3 ; 28) GR	E	216.664 58	−1.1	3960
* 8796	P (2, 0 ; 3) GR	←	(1, −1 ; 4) GR	E	216.672 56	0.2	3168
* 8797	R (1, 2 $^+$; 13) GR	←	(0, 1 $^-$; 12) GR	A	216.675 02	0.8	7425
* 8798	R (1, 8 ; 22) GR	←	(0, 9 ; 21) GR	A	216.718 69	0.4	1089
* 8799	R (2, 4 ; 21) GR	←	(2, 3 ; 20) GR	E	216.797 60	0.1	6534
* 8800	R (1, 1 $^+$; 11) GR	←	(0, 2 $^-$; 10) GR	A	216.809 48	−0.9	6633
* 8801	P (1, 3 ; 19) GR	←	(0, 2 $^+$; 20) GR	A	216.811 52	6.0	7623
* 8802	R (3, 1 ; 15) GR	←	(2, 0 ; 14) GR	E	216.811 52	−0.9	7623
* 8803	P (1, −7 ; 9) GR	←	(0, −6 ; 10) GR	E	216.840 38	−0.6	1485
* 8804	R (2, 5 ; 25) GR	←	(2, 4 ; 24) GR	A	216.856 46	0.2	6831
8805	Q (1, 4 ; 27) GR	←	(0, 3 ; 27) GR	E	216.942 77	5.1	5544
* 8806	R (1, 1 $^-$; 11) GR	←	(0, 2 $^+$; 10) GR	A	216.977 25	−0.6	6435
* 8807	P (1, 3 ; 3) GR	←	(0, 4 ; 4) GR	E	216.999 47	1.0	6831
* 8808	P (1, 6 ; 12) GR	←	(0, 7 ; 13) GR	E	217.039 32	−1.9	3935
* 8809	R (1, 1 ; 15) GR	←	(0, 0 ; 14) GR	E	217.040 84	−0.1	6237
* 8810	R (1, 2 $^-$; 12) GR	←	(0, 1 $^+$; 11) GR	A	217.063 14	0.4	7425
* 8811	R (1, −4 ; 14) GR	←	(0, −5 ; 13) GR	E	217.076 22	0.0	2178
* 8812	R (2, 8 ; 17) GR	←	(1, 7 ; 16) GR	A	217.112 63	0.4	8118
* 8813	P (1, 9 ; 21) GR	←	(0, 8 ; 22) GR	A	217.123 23	−0.5	1980
* 8814	P (1, 6 ; 7) GR	←	(0, 5 ; 8) GR	A	217.147 35	2.9	3762
* 8815	R (1, 2 $^+$; 30) GR	←	(0, 3 $^-$; 29) GR	A	217.147 35	−1.1	3762
* 8816	Q (1, 4 ; 26) GR	←	(0, 3 ; 26) GR	E	217.200 58	0.5	4653
* 8817	P (1, −1 ; 29) GR	←	(0, −2 ; 30) GR	E	217.204 85	1.6	1683
* 8818	P (3, 2 ; 11) GR	←	(3, 1 ; 12) GR	E	217.252 24	−0.7	3069
* 8819	R (2, −3 ; 19) GR	←	(2, −2 ; 18) GR	E	217.284 98	−0.4	6732
* 8820	P (1, 3 ; 19) GR	←	(0, 2 $^-$; 20) GR	A	217.299 02	−2.9	4554
* 8821	R (1, −3 ; 7) GR	←	(0, −2 ; 6) GR	E	217.306 21	0.1	7425
* 8822	R (1, 1 ; 20) GR	←	(0, 2 ; 19) GR	E	217.309 02	−0.4	6138
* 8823	P (1, 2 ; 16) GR	←	(0, 3 ; 17) GR	E	217.318 97	0.2	4158
* 8824	P (3, −1 ; 12) GR	←	(3, 0 ; 13) GR	E	217.334 59	−0.7	3069
* 8825	R (1, 0 ; 15) GR	←	(0, 1 ; 14) GR	E	217.367 12	−0.2	7128
* 8826	R (2, −6 ; 35) GR	←	(2, −5 ; 34) GR	E	217.406 61	1.0	2970
* 8827	P (4, −1 ; 14) GR	←	(3, −2 ; 15) GR	E	217.426 58	0.4	2475
* 8828	Q (1, 4 ; 25) GR	←	(0, 3 ; 25) GR	E	217.440 38	0.1	5148
* 8829	Q (1, 3 $^+$; 29) GR	←	(0, 4 $^+$; 29) GR	A	217.446 85	−0.2	1386
* 8830	R (3, 0 ; 14) GR	←	(2, 1 ; 13) GR	E	217.449 34	−0.6	5445
* 8831	P (1, 5 ; 8) GR	←	(0, 4 ; 9) GR	E	217.459 56	−0.3	3861
* 8832	P (1, 5 ; 11) GR	←	(0, 4 ; 12) GR	A	217.524 67	−0.4	4059
* 8833	R (1, 0 ; 8) GR	←	(0, −1 ; 7) GR	E	217.535 05	−0.6	5049
* 8834	P (2, −2 ; 3) GR	←	(1, −3 ; 4) GR	E	217.559 97	2.7	1782
8835	Q (1, 3 $^+$; 28) GR	←	(0, 4 $^+$; 28) GR	A	217.590 51	2.9	1782
* 8836	P (1, −4 ; 12) GR	←	(0, −3 ; 13) GR	E	217.595 39	0.1	5049
* 8837	R (1, −2 ; 5) GR	←	(0, −3 ; 4) GR	E	217.612 96	1.3	2277
* 8838	Q (1, 4 ; 24) GR	←	(0, 3 ; 24) GR	E	217.662 42	0.8	5445
* 8839	P (1, −5 ; 18) GR	←	(0, −6 ; 19) GR	E	217.665 19	−2.2	4653
* 8840	P (1, 4 ; 12) GR	←	(0, 5 ; 13) GR	A	217.680 83	0.2	7326
* 8841	Q (1, 3 $^+$; 27) GR	←	(0, 4 $^+$; 27) GR	A	217.726 23	−0.2	1188
* 8842	Q (1, 3 $^-$; 27) GR	←	(0, 4 $^-$; 27) GR	A	217.751 45	−1.6	1287
* 8843	R (2, 6 ; 20) GR	←	(1, 5 ; 19) GR	E	217.784 84	0.3	4257
* 8844	P (1, 2 ; 27) GR	←	(0, 1 ; 28) GR	E	217.833 49	6.5	6336
* 8845	Q (1, 3 $^+$; 26) GR	←	(0, 4 $^+$; 26) GR	A	217.855 20	0.8	1386
* 8846	Q (1, 4 ; 23) GR	←	(0, 3 ; 23) GR	E	217.867 44	−0.7	5841
* 8847	Q (1, 3 $^-$; 26) GR	←	(0, 4 $^-$; 26) GR	A	217.873 84	−6.0	3960
* 8848	R (1, 5 ; 28) GR	←	(0, 6 ; 27) GR	E	217.916 55	−0.1	1089
* 8849	P (1, −6 ; 23) GR	←	(0, −5 ; 24) GR	E	217.962 98	0.7	1188
* 8850	Q (1, 3 $^+$; 25) GR	←	(0, 4 $^+$; 25) GR	A	217.977 22	−0.9	1584



Index	upper state T (n, K ; J) v		lower state (n, K ; J) v		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 8851	Q (1, 3 $^-$; 25) GR	← (0, 4 $^-$; 25) GR	A	217.991 92	1.2	1485
* 8852	P (1, −2 ; 19) GR	← (0, −1 ; 20) GR	E	218.012 81	−1.1	2475
* 8853	R (3, 1 $^+$; 13) GR	← (2, 2 ; 12) GR	A	218.022 63	0.8	7524
* 8854	R (1, 2 $^+$; 14) GR	← (0, 1 $^-$; 13) GR	A	218.022 63	0.3	7524
* 8855	R (3, 1 $^-$; 13) GR	← (2, 2 ; 12) GR	A	218.024 09	−0.9	4638
* 8856	P (1, 8 ; 13) GR	← (0, 7 ; 14) GR	E	218.056 38	1.5	6336
* 8857	Q (1, 4 ; 22) GR	← (0, 3 ; 22) GR	E	218.056 38	−0.1	6336
* 8858	Q (1, 3 $^+$; 24) GR	← (0, 4 $^+$; 24) GR	A	218.093 13	0.9	1980
* 8859	Q (1, 3 $^-$; 24) GR	← (0, 4 $^-$; 24) GR	A	218.103 79	−1.1	1980
* 8860	R (1, 8 ; 23) GR	← (0, 9 ; 22) GR	A	218.159 71	1.3	1287
* 8861	Q (1, 3 $^+$; 23) GR	← (0, 4 $^+$; 23) GR	A	218.202 62	−0.8	2178
* 8862	Q (1, 3 $^-$; 23) GR	← (0, 4 $^-$; 23) GR	A	218.210 49	−0.6	2277
* 8863	Q (1, 4 ; 21) GR	← (0, 3 ; 21) GR	E	218.230 13	1.1	6138
* 8864	P (1, 1 $^-$; 4) GR	← (0, 0 $^+$; 5) GR	A	218.246 31	0.3	5049
* 8865	P (2, 0 ; 2) GR	← (1, −1 ; 3) GR	E	218.250 14	0.4	2079
* 8866	Q (1, 3 $^+$; 22) GR	← (0, 4 $^+$; 22) GR	A	218.306 32	0.3	2574
* 8867	Q (1, 3 $^-$; 22) GR	← (0, 4 $^-$; 22) GR	A	218.311 87	−0.6	2574
* 8868	R (1, 1 $^+$; 12) GR	← (0, 2 $^-$; 11) GR	A	218.315 84	0.3	6039
* 8869	R (2, 4 ; 22) GR	← (2, 3 ; 21) GR	E	218.334 67	0.9	6039
* 8870	R (3, 1 ; 16) GR	← (2, 0 ; 15) GR	E	218.352 50	0.0	6237
* 8871	Q (1, 4 ; 20) GR	← (0, 3 ; 20) GR	E	218.389 31	−0.7	6732
* 8872	R (2, 5 ; 26) GR	← (2, 4 ; 25) GR	A	218.391 42	0.8	6435
8873	Q (1, 3 ; 21) GR	← (0, 4 $^+$; 21) GR	A	218.404 09	−5.9	2673
8874	Q (1, 3 ; 21) GR	← (0, 4 $^-$; 21) GR	A	218.408 28	6.6	2673
* 8875	R (1, 2 $^+$; 31) GR	← (0, 3 $^-$; 30) GR	A	218.422 83	−0.3	2376
* 8876	P (1, −7 ; 8) GR	← (0, −6 ; 9) GR	E	218.455 02	0.5	891
* 8877	P (1, 3 ; 18) GR	← (0, 2 $^+$; 19) GR	A	218.489 01	1.4	4653
8878	Q (1, 3 ; 20) GR	← (0, 4 $^+$; 20) GR	A	218.496 53	−4.7	3267
* 8879	Q (1, 3 ; 20) GR	← (0, 4 $^-$; 20) GR	A	218.499 18	2.5	3465
* 8880	R (1, 1 $^-$; 12) GR	← (0, 2 $^+$; 11) GR	A	218.505 08	0.1	6831
* 8881	Q (1, 4 ; 19) GR	← (0, 3 ; 19) GR	E	218.535 02	0.6	6435
* 8882	P (2, −6 ; 12) GR	← (1, −7 ; 13) GR	E	218.548 34	1.9	891
8883	Q (1, 3 ; 19) GR	← (0, 4 $^+$; 19) GR	A	218.583 40	−7.3	3564
8884	Q (1, 3 ; 19) GR	← (0, 4 $^-$; 19) GR	A	218.585 48	5.4	3564
* 8885	R (1, −4 ; 15) GR	← (0, −5 ; 14) GR	E	218.597 46	0.2	2475
* 8886	R (2, 8 ; 18) GR	← (1, 7 ; 17) GR	A	218.642 83	0.1	8316
* 8887	R (1, 1 ; 16) GR	← (0, 0 ; 15) GR	E	218.657 04	0.3	6732
8888	P (1, 6 ; 11) GR	← (0, 7 ; 12) GR	E	218.661 64	−3.6	7623
* 8889	Q (1, 3 ; 18) GR	← (0, 4 ; 18) GR	A	218.665 60	−1.1	4752
* 8890	Q (1, 4 ; 18) GR	← (0, 3 ; 18) GR	E	218.667 83	−1.3	6831
* 8891	Q (1, 3 ; 17) GR	← (0, 4 ; 17) GR	A	218.742 24	0.7	5742
* 8892	R (1, 2 $^-$; 13) GR	← (0, 1 $^+$; 12) GR	A	218.745 41	2.4	8910
8893	R (1, 1 ; 21) GR	← (0, 2 ; 20) GR	E	218.745 41	−4.0	8910
* 8894	P (1, 6 ; 6) GR	← (0, 5 ; 7) GR	A	218.753 67	1.5	1089
* 8895	P (1, 9 ; 20) GR	← (0, 8 ; 21) GR	A	218.777 46	−0.7	1485
* 8896	Q (1, 4 ; 17) GR	← (0, 3 ; 17) GR	E	218.788 85	0.2	6831
* 8897	Q (1, 3 ; 16) GR	← (0, 4 ; 16) GR	A	218.813 76	0.1	6534
* 8898	R (2, −3 ; 20) GR	← (2, −2 ; 19) GR	E	218.823 56	0.0	6237
* 8899	P (3, 2 ; 10) GR	← (3, 1 ; 11) GR	E	218.836 43	0.7	3366
* 8900	R (1, −3 ; 8) GR	← (0, −2 ; 7) GR	E	218.839 56	0.4	7524
* 8901	R (1, 0 ; 16) GR	← (0, 1 ; 15) GR	E	218.851 48	−0.9	7227
* 8902	Q (1, 3 ; 15) GR	← (0, 4 ; 15) GR	A	218.880 60	0.4	6336
* 8903	P (1, 3 ; 18) GR	← (0, 2 $^-$; 19) GR	A	218.889 97	−1.4	4554
* 8904	Q (1, 4 ; 16) GR	← (0, 3 ; 16) GR	E	218.898 57	0.2	7128
* 8905	P (3, −1 ; 11) GR	← (3, 0 ; 12) GR	E	218.920 72	−0.3	2970
* 8906	Q (1, 3 ; 14) GR	← (0, 4 ; 14) GR	A	218.942 69	−0.4	6930
* 8907	P (1, 2 ; 15) GR	← (0, 3 ; 16) GR	E	218.975 58	0.1	3960
* 8908	R (3, 0 ; 15) GR	← (2, 1 ; 14) GR	E	218.991 21	0.4	5445
* 8909	Q (1, 4 ; 15) GR	← (0, 3 ; 15) GR	E	218.997 85	−0.6	7623
* 8910	Q (1, 3 ; 13) GR	← (0, 4 ; 13) GR	A	219.000 37	−0.1	6336
* 8911	P (4, −1 ; 13) GR	← (3, −2 ; 14) GR	E	219.013 11	−0.9	3564
* 8912	Q (1, 3 ; 30) GR	← (0, 4 ; 30) GR	E	219.019 45	−0.3	4356
* 8913	Q (1, 3 ; 12) GR	← (0, 4 ; 12) GR	A	219.053 46	−0.4	6435
* 8914	P (1, 5 ; 7) GR	← (0, 4 ; 8) GR	E	219.062 70	−2.9	3861
* 8915	R (1, 0 ; 9) GR	← (0, −1 ; 8) GR	E	219.079 38	1.6	5247
* 8916	Q (1, 4 ; 14) GR	← (0, 3 ; 14) GR	E	219.087 45	−0.3	7524
* 8917	Q (1, 3 ; 11) GR	← (0, 4 ; 11) GR	A	219.102 18	−0.4	6237
* 8918	P (2, −2 ; 2) GR	← (1, −3 ; 3) GR	E	219.134 33	−1.4	1683
* 8919	Q (1, 3 ; 10) GR	← (0, 4 ; 10) GR	A	219.146 43	−1.6	6435
* 8920	P (1, 5 ; 10) GR	← (0, 4 ; 11) GR	A	219.149 78	−1.4	3960
* 8921	R (1, −2 ; 6) GR	← (0, −3 ; 5) GR	E	219.160 93	0.2	3465
8922	Q (1, 4 ; 13) GR	← (0, 3 ; 13) GR	E	219.168 33	4.2	8712
* 8923	Q (1, 3 ; 9) GR	← (0, 4 ; 9) GR	A	219.186 78	0.6	6336
* 8924	P (1, −4 ; 11) GR	← (0, −3 ; 12) GR	E	219.213 84	0.9	5742
* 8925	P (1, −1 ; 28) GR	← (0, −2 ; 29) GR	E	219.213 84	−3.4	5742

Index	upper state T (n, K ; J) v		lower state (n, K ; J) v		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 8926	Q (1, 3 ; 8) GR	← (0, 4 ; 8) GR	A	219.222 86	1.4	6633
* 8927	R (2, 6 ; 21) GR	← (1, 5 ; 20) GR	E	219.223 95	0.5	3601
* 8928	Q (1, 4 ; 12) GR	← (0, 3 ; 12) GR	E	219.239 97	−0.1	7227
* 8929	Q (1, 3 ; 7) GR	← (0, 4 ; 7) GR	A	219.254 56	0.0	5940
* 8930	P (1, −5 ; 17) GR	← (0, −6 ; 18) GR	E	219.276 10	−0.9	4356
* 8931	Q (1, 3 ; 6) GR	← (0, 4 ; 6) GR	A	219.282 70	3.5	8910
* 8932	P (1, 4 ; 11) GR	← (0, 5 ; 12) GR	A	219.282 70	−2.0	8910
* 8933	Q (1, 4 ; 11) GR	← (0, 3 ; 11) GR	E	219.304 06	−0.2	7524
* 8934	Q (1, 3 ; 5) GR	← (0, 4 ; 5) GR	A	219.306 05	0.4	4653
* 8935	Q (1, 3 ; 4) GR	← (0, 4 ; 4) GR	A	219.325 70	0.0	3465
* 8936	R (1, 2 $^+$; 15) GR	← (0, 1 $^-$; 14) GR	A	219.354 49	0.3	7326
* 8937	Q (1, 4 ; 10) GR	← (0, 3 ; 10) GR	E	219.361 02	0.5	7425
8938	Q (1, 3 ; 29) GR	← (0, 4 ; 29) GR	E	219.394 08	−4.6	9009
* 8939	Q (1, 4 ; 9) GR	← (0, 3 ; 9) GR	E	219.411 14	0.4	7326
* 8940	Q (1, 4 ; 8) GR	← (0, 3 ; 8) GR	E	219.454 89	0.3	7029
* 8941	P (1, 2 ; 26) GR	← (0, 1 ; 27) GR	E	219.482 15	0.9	2277
* 8942	Q (1, 4 ; 7) GR	← (0, 3 ; 7) GR	E	219.492 74	0.0	6633
* 8943	Q (1, 4 ; 6) GR	← (0, 3 ; 6) GR	E	219.525 04	−0.8	6039
* 8944	Q (1, 4 ; 5) GR	← (0, 3 ; 5) GR	E	219.552 16	−0.1	6039
* 8945	P (1, −2 ; 18) GR	← (0, −1 ; 19) GR	E	219.558 26	0.5	2871
* 8946	R (3, 1 $^+$; 14) GR	← (2, 2 ; 13) GR	A	219.565 04	−0.7	5049
* 8947	R (3, 1 $^-$; 14) GR	← (2, 2 ; 13) GR	A	219.566 88	−1.3	4455
8948	Q (1, 4 ; 4) GR	← (0, 3 ; 4) GR	E	219.574 88	6.5	6930
* 8949	R (1, 5 ; 29) GR	← (0, 6 ; 28) GR	E	219.580 37	−1.7	7722
* 8950	R (1, 8 ; 24) GR	← (0, 9 ; 23) GR	A	219.593 72	−1.9	990
8951	P (1, −6 ; 22) GR	← (0, −5 ; 23) GR	E	219.656 95	−6.6	1683
* 8952	P (1, 8 ; 12) GR	← (0, 7 ; 13) GR	E	219.673 01	4.2	2277
8953	R (1, 2 $^+$; 32) GR	← (0, 3 $^-$; 31) GR	A	219.673 01	−8.3	2277
* 8954	Q (1, 3 ; 28) GR	← (0, 4 ; 28) GR	E	219.752 23	0.6	4554
* 8955	R (1, 1 $^+$; 13) GR	← (0, 2 $^-$; 12) GR	A	219.817 14	0.3	6435
* 8956	P (2, 0 ; 1) GR	← (1, −1 ; 2) GR	E	219.825 27	−1.0	1980
* 8957	P (1, 1 $^-$; 3) GR	← (0, 0 $^+$; 4) GR	A	219.829 44	0.8	4356
* 8958	R (2, 4 ; 23) GR	← (2, 3 ; 22) GR	E	219.869 82	0.0	5940
* 8959	R (3, 1 ; 17) GR	← (2, 0 ; 16) GR	E	219.891 22	0.4	6039
* 8960	R (2, 5 ; 27) GR	← (2, 4 ; 26) GR	A	219.924 28	1.4	6138
* 8961	R (1, 1 $^-$; 13) GR	← (0, 2 $^+$; 12) GR	A	220.026 36	0.1	6435
* 8962	P (1, −7 ; 7) GR	← (0, −6 ; 8) GR	E	220.064 38	0.0	6435
* 8963	Q (1, 3 ; 27) GR	← (0, 4 ; 27) GR	E	220.090 03	0.7	5148
* 8964	R (1, −4 ; 16) GR	← (0, −5 ; 15) GR	E	220.116 08	−0.5	2376
* 8965	P (2, −6 ; 11) GR	← (1, −7 ; 12) GR	E	220.124 30	0.9	891
* 8966	P (1, 3 ; 17) GR	← (0, 2 $^+$; 18) GR	A	220.159 93	1.7	4752
* 8967	R (2, 8 ; 19) GR	← (1, 7 ; 18) GR	A	220.170 20	0.0	8118
* 8968	R (1, 1 ; 22) GR	← (0, 2 ; 21) GR	E	220.182 47	0.5	5148
* 8969	P (1, 6 ; 10) GR	← (0, 7 ; 11) GR	E	220.278 50	0.2	4158
* 8970	R (1, 1 ; 17) GR	← (0, 0 ; 16) GR	E	220.288 69	−0.3	6237
* 8971	R (1, 0 ; 17) GR	← (0, 1 ; 16) GR	E	220.327 73	0.2	7128
* 8972	R (2, −3 ; 21) GR	← (2, −2 ; 20) GR	E	220.360 24	0.2	6039
* 8973	R (1, −3 ; 9) GR	← (0, −2 ; 8) GR	E	220.365 36	0.1	7425
* 8974	Q (1, 3 ; 26) GR	← (0, 4 ; 26) GR	E	220.407 69	0.8	5445
* 8975	P (3, 2 ; 9) GR	← (3, 1 ; 10) GR	E	220.418 96	−0.7	3065
* 8976	P (1, 9 ; 19) GR	← (0, 8 ; 20) GR	A	220.426 01	−1.7	1683
* 8977	R (1, 2 $^-$; 14) GR	← (0, 1 $^+$; 13) GR	A	220.437 42	0.0	7524
* 8978	P (1, 3 ; 17) GR	← (0, 2 $^-$; 18) GR	A	220.485 76	−0.3	4851
* 8979	P (3, −1 ; 10) GR	← (3, 0 ; 11) GR	E	220.505 35	0.7	2970
* 8980	R (3, 0 ; 16) GR	← (2, 1 ; 15) GR	E	220.530 82	0.5	5346
* 8981	P (4, −1 ; 12) GR	← (3, −2 ; 13) GR	E	220.598 73	−0.3	2574
* 8982	R (1, 0 ; 10) GR	← (0, −1 ; 9) GR	E	220.622 24	0.6	5148
* 8983	P (1, 2 ; 14) GR	← (0, 3 ; 15) GR	E	220.624 96	−0.3	4554
* 8984	R (2, 6 ; 22) GR	← (1, 5 ; 21) GR	E	220.649 40	0.3	3564
* 8985	P (1, 5 ; 6) GR	← (0, 4 ; 7) GR	E	220.664 43	0.8	1980
* 8986	R (1, 2 $^+$; 16) GR	← (0, 1 $^-$; 15) GR	A	220.670 92	0.1	7029
* 8987	R (1, −2 ; 7) GR	← (0, −3 ; 6) GR	E	220.703 82	−0.9	4124
* 8988	Q (1, 3 ; 25) GR	← (0, 4 ; 25) GR	E	220.704 85	−2.3	6039
* 8989	P (1, 5 ; 9) GR	← (0, 4 ; 10) GR	A	220.769 76	0.2	3762
* 8990	P (1, −4 ; 10) GR	← (0, −3 ; 11) GR	E	220.829 67	0.0	4653
* 8991	P (1, 4 ; 10) GR	← (0, 5 ; 11) GR	A	220.886 00	0.0	7722
* 8992	P (1, −5 ; 16) GR	← (0, −6 ; 17) GR	E	220.887 62	−0.6	4013
* 8993	R (1, 2 $^+$; 33) GR	← (0, 3 $^-$; 32) GR	A	220.898 54	0.5	1980
* 8994	Q (1, 3 ; 24) GR	← (0, 4 ; 24) GR	E	220.982 44	−0.6	6039
* 8995	R (1, 8 ; 25) GR	← (0, 9 ; 24) GR	A	221.021 53	2.1	1782
* 8996	R (3, 1 $^+$; 15) GR	← (2, 2 ; 14) GR	A	221.105 44	0.4	4653
* 8997	R (3, 1 $^-$; 15) GR	← (2, 2 ; 14) GR	A	221.107 52	−0.2	4455
* 8998	P (1, −2 ; 17) GR	← (0, −1 ; 18) GR	E	221.112 97	0.9	2277
8999	P (1, 2 ; 25) GR	← (0, 1 ; 26) GR	E	221.135 72	−6.6	7029
* 9000	P (1, −1 ; 27) GR	← (0, −2 ; 28) GR	E	221.206 11	−1.4	1980



Index	upper state T (n, K ; J)	ν	←	lower state (n, K ; J)	ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 9001	Q (1, 3 ; 23)	GR	← (0, 4 ; 23)	GR	E	221.239 88	−0.5	6336
* 9002	R (1, 5 ; 30)	GR	← (0, 6 ; 29)	GR	E	221.253 22	−2.6	2277
9003	P (1, 8 ; 11)	GR	← (0, 7 ; 12)	GR	E	221.286 81	−6.0	6732
* 9004	R (1, 1 +; 14)	GR	← (0, 2 −; 13)	GR	A	221.313 58	−0.4	6138
* 9005	P (1, −6 ; 21)	GR	← (0, −5 ; 22)	GR	E	221.345 06	−1.3	1386
* 9006	Q (2, −6 ; 32)	GR	← (1, −5 ; 32)	GR	E	221.365 70	−0.2	1287
* 9007	P (2, 0 ; 0)	GR	← (1, −1 ; 1)	GR	E	221.398 52	1.7	1485
* 9008	R (2, 4 ; 24)	GR	← (2, 3 ; 23)	GR	E	221.402 95	0.0	5940
* 9009	P (1, 1 −; 2)	GR	← (0, 0 +; 3)	GR	A	221.410 82	1.2	3564
* 9010	R (3, 1 ; 18)	GR	← (2, 0 ; 17)	GR	E	221.427 72	0.2	5742
* 9011	R (2, 5 ; 28)	GR	← (2, 4 ; 27)	GR	A	221.455 21	0.2	5940
* 9012	Q (1, 3 ; 22)	GR	← (0, 4 ; 22)	GR	E	221.477 79	0.0	6732
* 9013	R (1, 1 −; 14)	GR	← (0, 2 +; 13)	GR	A	221.540 41	−0.4	6633
* 9014	Q (2, −6 ; 31)	GR	← (1, −5 ; 31)	GR	E	221.567 99	−1.5	1287
* 9015	R (1, 1 ; 23)	GR	← (0, 2 ; 22)	GR	E	221.620 48	1.9	4851
* 9016	R (1, −4 ; 17)	GR	← (0, −5 ; 16)	GR	E	221.632 45	−0.3	2475
9017	Q (2, 0 ; 30)	GR	← (1, −1 ; 30)	GR	E	221.692 77	−3.0	1782
* 9018	R (2, 8 ; 20)	GR	← (1, 7 ; 19)	GR	A	221.694 65	0.2	8118
* 9019	Q (1, 3 ; 21)	GR	← (0, 4 ; 21)	GR	E	221.696 68	0.5	6732
9020	P (2, −6 ; 10)	GR	← (1, −7 ; 11)	GR	E	221.701 29	−3.7	891
* 9021	Q (2, −6 ; 30)	GR	← (1, −5 ; 30)	GR	E	221.758 90	−0.3	1683
9022	Q (2, 0 ; 29)	GR	← (1, −1 ; 29)	GR	E	221.782 26	−6.6	1584
* 9023	R (1, 0 ; 18)	GR	← (0, 1 ; 17)	GR	E	221.795 52	0.2	6732
* 9024	P (1, 3 ; 16)	GR	← (0, 2 +; 17)	GR	A	221.824 01	0.1	4950
* 9025	Q (2, 0 ; 28)	GR	← (1, −1 ; 28)	GR	E	221.871 04	−0.9	1980
* 9026	R (1, −3 ; 10)	GR	← (0, −2 ; 9)	GR	E	221.882 72	0.2	7722
* 9027	P (1, 6 ; 9)	GR	← (0, 7 ; 10)	GR	E	221.889 43	0.2	4455
* 9028	R (2, −3 ; 22)	GR	← (2, −2 ; 21)	GR	E	221.894 83	−0.4	7227
* 9029	Q (1, 3 ; 20)	GR	← (0, 4 ; 20)	GR	E	221.896 92	−0.6	7029
* 9030	R (1, 1 ; 18)	GR	← (0, 0 ; 17)	GR	E	221.937 13	0.3	6039
* 9031	Q (2, −6 ; 29)	GR	← (1, −5 ; 29)	GR	E	221.938 24	−2.6	1918
* 9032	Q (2, 0 ; 27)	GR	← (1, −1 ; 27)	GR	E	221.955 49	0.1	1881
* 9033	R (1, 2 +; 17)	GR	← (0, 1 −; 16)	GR	A	221.972 45	−1.2	7029
* 9034	P (3, 2 ; 8)	GR	← (3, 1 ; 9)	GR	E	222.000 33	−0.3	4851
* 9035	Q (2, 0 ; 26)	GR	← (1, −1 ; 26)	GR	E	222.035 94	0.3	1881
* 9036	R (2, 6 ; 23)	GR	← (1, 5 ; 22)	GR	E	222.060 63	0.7	3465
* 9037	R (3, 0 ; 17)	GR	← (2, 1 ; 16)	GR	E	222.068 49	0.5	6336
9038	P (1, 9 ; 18)	GR	← (0, 8 ; 19)	GR	A	222.068 49	−8.3	6336
* 9039	Q (1, 3 ; 19)	GR	← (0, 4 ; 19)	GR	E	222.079 36	−0.7	7128
* 9040	P (1, 3 ; 16)	GR	← (0, 2 −; 17)	GR	A	222.085 56	0.1	5247
* 9041	P (3, −1 ; 9)	GR	← (3, 0 ; 10)	GR	E	222.088 41	0.2	3564
* 9042	Q (2, −6 ; 28)	GR	← (1, −5 ; 28)	GR	E	222.106 29	−0.9	2376
* 9043	Q (2, 0 ; 25)	GR	← (1, −1 ; 25)	GR	E	222.112 42	2.3	2574
* 9044	R (1, 2 −; 15)	GR	← (0, 1 +; 14)	GR	A	222.139 99	−1.9	7029
* 9045	R (1, 0 ; 11)	GR	← (0, −1 ; 10)	GR	E	222.164 65	0.1	5247
* 9046	P (4, −1 ; 11)	GR	← (3, −2 ; 12)	GR	E	222.182 76	−0.6	2871
* 9047	Q (2, 0 ; 24)	GR	← (1, −1 ; 24)	GR	E	222.184 80	2.3	2574
* 9048	R (1, −2 ; 8)	GR	← (0, −3 ; 7)	GR	E	222.241 70	−0.4	4950
* 9049	Q (1, 3 ; 18)	GR	← (0, 4 ; 18)	GR	E	222.244 73	−0.6	6930
* 9050	Q (2, 0 ; 23)	GR	← (1, −1 ; 23)	GR	E	222.253 27	0.5	3069
* 9051	P (1, 5 ; 5)	GR	← (0, 4 ; 6)	GR	E	222.263 30	3.4	3366
* 9052	Q (2, −6 ; 27)	GR	← (1, −5 ; 27)	GR	E	222.263 30	−0.5	3366
* 9053	P (1, 2 ; 13)	GR	← (0, 3 ; 14)	GR	E	222.267 66	−0.2	4455
* 9054	Q (2, 0 ; 22)	GR	← (1, −1 ; 22)	GR	E	222.317 98	0.4	3267
* 9055	Q (2, 0 ; 21)	GR	← (1, −1 ; 21)	GR	E	222.379 00	−0.1	3267
* 9056	P (1, 5 ; 8)	GR	← (0, 4 ; 9)	GR	A	222.384 49	0.3	2970
* 9057	Q (1, 3 ; 17)	GR	← (0, 4 ; 17)	GR	E	222.393 90	0.6	7227
* 9058	Q (2, −6 ; 26)	GR	← (1, −5 ; 26)	GR	E	222.409 79	0.6	4059
* 9059	Q (2, 0 ; 20)	GR	← (1, −1 ; 20)	GR	E	222.436 62	−0.1	3663
9060	R (1, 8 ; 26)	GR	← (0, 9 ; 25)	GR	A	222.442 21	5.4	7227
9061	P (1, −4 ; 9)	GR	← (0, −3 ; 10)	GR	E	222.442 21	−5.3	7227
* 9062	P (1, 4 ; 9)	GR	← (0, 5 ; 10)	GR	A	222.489 13	−0.5	8118
* 9063	Q (2, 0 ; 19)	GR	← (1, −1 ; 19)	GR	E	222.490 43	−1.6	4296
* 9064	P (1, −5 ; 15)	GR	← (0, −6 ; 16)	GR	E	222.499 61	−0.3	5841
* 9065	Q (1, 3 ; 16)	GR	← (0, 4 ; 16)	GR	E	222.527 58	−0.5	7524
* 9066	Q (2, 0 ; 18)	GR	← (1, −1 ; 18)	GR	E	222.541 49	0.5	4059
* 9067	Q (2, −6 ; 25)	GR	← (1, −5 ; 25)	GR	E	222.545 73	−0.3	4158
* 9068	P (1, 10 ; 28)	GR	← (0, 9 ; 29)	GR	A	222.545 73	−1.8	4158
* 9069	Q (2, 0 ; 17)	GR	← (1, −1 ; 17)	GR	E	222.588 80	−0.8	4950
* 9070	Q (2, 0 ; 16)	GR	← (1, −1 ; 16)	GR	E	222.633 24	−0.1	4653
* 9071	R (3, 1 +; 16)	GR	← (2, 2 ; 15)	GR	A	222.643 48	−0.8	5643
9072	R (3, 1 −; 16)	GR	← (2, 2 ; 15)	GR	A	222.646 55	5.9	7722
9073	Q (1, 3 ; 15)	GR	← (0, 4 ; 15)	GR	E	222.646 55	−4.6	7722
* 9074	Q (2, −6 ; 24)	GR	← (1, −5 ; 24)	GR	E	222.671 74	−0.1	4653
* 9075	Q (2, 0 ; 15)	GR	← (1, −1 ; 15)	GR	E	222.674 30	−1.4	5126
* 9076	P (1, −2 ; 16)	GR	← (0, −1 ; 17)	GR	E	222.675 83	−1.3	3220
* 9077	Q (2, 0 ; 14)	GR	← (1, −1 ; 14)	GR	E	222.712 72	0.1	4851
* 9078	Q (2, 0 ; 13)	GR	← (1, −1 ; 13)	GR	E	222.748 07	−0.1	5049
* 9079	Q (1, 3 ; 14)	GR	← (0, 4 ; 14)	GR	E	222.752 82	−0.7	7227
* 9080	Q (2, 0 ; 12)	GR	← (1, −1 ; 12)	GR	E	222.780 47	−0.1	5148
* 9081	Q (2, −6 ; 23)	GR	← (1, −5 ; 23)	GR	E	222.788 06	−1.0	4059
* 9082	P (1, 2 ; 24)	GR	← (0, 1 ; 25)	GR	E	222.794 25	−0.1	2178
* 9083	R (1, 1 +; 15)	GR	← (0, 2 −; 14)	GR	A	222.805 33	1.1	6336
* 9084	Q (2, 0 ; 11)	GR	← (1, −1 ; 11)	GR	E	222.810 22	−0.8	5049
* 9085	Q (2, 0 ; 10)	GR	← (1, −1 ; 10)	GR	E	222.837 28	0.6	5049
* 9086	Q (1, 3 ; 13)	GR	← (0, 4 ; 13)	GR	E	222.846 30	−1.3	7425
* 9087	Q (2, 0 ; 9)	GR	← (1, −1 ; 9)	GR	E	222.861 66	−0.4	4851
* 9088	Q (2, 0 ; 8)	GR	← (1, −1 ; 8)	GR	E	222.883 43	−0.3	4950
* 9089	Q (2, −6 ; 22)	GR	← (1, −5 ; 22)	GR	E	222.895 25	0.1	4851
* 9090	P (1, 8 ; 10)	GR	← (0, 7 ; 11)	GR	E	222.900 37	−3.6	1879
* 9091	Q (2, 0 ; 7)	GR	← (1, −1 ; 7)	GR	E	222.902 68	0.3	4554
* 9092	Q (2, 0 ; 6)	GR	← (1, −1 ; 6)	GR	E	222.919 47	0.8	4653
* 9093	Q (1, 3 ; 12)	GR	← (0, 4 ; 12)	GR	E	222.928 40	0.3	7029
* 9094	Q (2, 0 ; 5)	GR	← (1, −1 ; 5)	GR	E	222.933 99	2.5	6930
* 9095	R (2, 4 ; 25)	GR	← (2, 3 ; 24)	GR	E	222.933 99	−1.0	6930
* 9096	Q (2, 0 ; 4)	GR	← (1, −1 ; 4)	GR	E	222.945 54	0.1	3663
* 9097	Q (2, 0 ; 3)	GR	← (1, −1 ; 3)	GR	E	222.955 03	0.6	3366
* 9098	R (3, 1 ; 19)	GR	← (2, 0 ; 18)	GR	E	222.961 94	0.4	6336
* 9099	Q (2, 0 ; 2)	GR	← (1, −1 ; 2)	GR	E	222.961 94	−0.6	6336
* 9100	Q (2, 0 ; 1)	GR	← (1, −1 ; 1)	GR	E	222.966 62	−0.7	1782
* 9101	R (2, 5 ; 29)	GR	← (2, 4 ; 28)	GR	A	222.984 03	−0.8	5841
* 9102	P (1, 1 −; 1)	GR	← (0, 0 +; 2)	GR	A	222.990 09	0.9	2178
* 9103	Q (2, −6 ; 21)	GR	← (1, −5 ; 21)	GR	E	222.993 73	1.6	4851
* 9104	Q (1, 3 ; 11)	GR	← (0, 4 ; 11)	GR	E	223.000 10	−0.5	7326
* 9105	P (1, −6 ; 20)	GR	← (0, −5 ; 21)	GR	E	223.025 77	0.5	1584
* 9106	R (1, 1 −; 15)	GR	← (0, 2 +; 14)	GR	A	223.046 70	−1.2	6534
* 9107	R (1, 1 ; 24)	GR	← (0, 2 ; 23)	GR	E	223.060 58	−1.3	5252
* 9108	Q (1, 3 ; 10)	GR	← (0, 4 ; 10)	GR	E	223.062 18	−0.9	7741
* 9109	Q (2, −6 ; 20)	GR	← (1, −5 ; 20)	GR	E	223.083 74	0.4	5049
* 9110	Q (1, 3 ; 9)	GR	← (0, 4 ; 9)	GR	E	223.115 84	−0.1	6930
* 9111	R (1, −4 ; 18)	GR	← (0, −5 ; 17)	GR	E	223.146 79	0.3	2574
* 9112	Q (1, 3 ; 8)	GR	← (0, 4 ; 8)	GR	E	223.161 57	0.2	6831
* 9113	Q (2, −6 ; 19)	GR	← (1, −5 ; 19)	GR	E	223.165 94	−0.1	5544
* 9114	P (1, −1 ; 26)	GR	← (0, −2 ; 27)	GR	E	223.178 90	−0.6	2475
* 9115	Q (1, 3 ; 7)	GR	← (0, 4 ; 7)	GR	E	223.200 28	−0.1	6534
* 9116	R (2, 8 ; 21)	GR	← (1, 7 ; 20)	GR	A	223.216 17	−0.3	7722
* 9117	Q (1, 3 ; 6)	GR	← (0, 4 ; 6)	GR	E	223.232 67	−1.0	6138
* 9118	Q (2, −6 ; 18)	GR	← (1, −5 ; 18)	GR	E	223.240 71	−0.6	5544
* 9119	R (1, 0 ; 19)	GR	← (0, 1 ; 18)	GR	E	223.254 72	0.2	7128
* 9120	Q (1, 3 ; 5)	GR	← (0, 4 ; 5)	GR	E	223.259 58	1.5	8118
* 9121	R (1, 2 +; 18)	GR	← (0, 1 −; 17)	GR	A	223.259 58	−1.9	8118
9122	P (2, −6 ; 9)	GR	← (1, −7 ; 10)	GR	E	223.280 61	4.3	4257
* 9123	Q (1, 3 ; 4)	GR	← (0, 4 ; 4)	GR	E	223.280 61	−0.9	4257
* 9124	Q (2, −6 ; 17)	GR	← (1, −5 ; 17)	GR	E	223.308 51	−0.1	5544
* 9125	Q (2, −6 ; 16)	GR	← (1, −5 ; 16)	GR	E	223.369 77	0.3	5940
* 9126	R (1, −3 ; 11)	GR	← (0, −2 ; 10)	GR	E	223.390 39	−0.1	7524
* 9127	Q (2, −6 ; 15)	GR	← (1, −5 ; 15)	GR	E	223.425 04	0.5	5940
* 9128	R (2, −3 ; 23)	GR	← (2, −2 ; 22)	GR	E	223.427 73	0.5	5841
* 9129	R (2, 6 ; 24)	GR	← (1, 5 ; 23)	GR	E	223.457 45	0.3	3069
* 9130	Q (2, −2 ; 28)	GR	← (1, −3 ; 28)	GR	E	223.466 42	−1.3	891
* 9131	Q (2, −6 ; 14)	GR	← (1, −5 ; 14)	GR	E	223.474 54	0.7	5841
* 9132	Q (2, −2 ; 27)	GR	← (1, −3 ; 27)	GR	E	223.476 91	2.5	1287
* 9133	P (1, 3 ; 15)	GR	← (0, 2 +; 16)	GR	A	223.481 37	1.0	5247
* 9134	Q (2, −2 ; 26)	GR	← (1, −3 ; 26)	GR	E	223.488 83	1.7	693
* 9135	P (1, 6 ; 8)	GR	← (0, 7 ; 9)	GR	E	223.495 37	−0.2	4455
* 9136	Q (2, −2 ; 25)	GR	← (1, −3 ; 25)	GR	E	223.501 64	−4.1	1188
* 9137	Q (2, −2 ; 24)	GR	← (1, −3 ; 24)	GR	E	223.516 74	−3.4	1089
* 9138	Q (2, −6 ; 13)	GR	← (1, −5 ; 13)	GR	E	223.518 85	0.4	6039
* 9139	Q (2, −2 ; 23)	GR	← (1, −3 ; 23)	GR	E	223.533 51	1.9	891
* 9140	Q (2, −2 ; 22)	GR	← (1, −3 ; 22)	GR	E	223.550 62	0.6	1188
* 9141	Q (2, −6 ; 12)	GR	← (1, −5 ; 12)	GR	E	223.558 28	−0.1	6039
* 9142	Q (2, −2 ; 21)	GR	← (1, −3 ; 21)	GR	E	223.568 80	1.7	1386
* 9143	P (3, 2 ; 7)	GR	← (3, 1 ; 8)	GR	E	223.580 13	−0.9	2970
* 9144	Q (2, −2 ; 20)	GR	← (1, −3 ; 20)	GR	E	223.587 47	1.9	999
* 9145	Q (2, −6 ; 11)	GR	← (1, −5 ; 11)	GR	E	223.593 17	0.0	5841
* 9146	R (1, 1 ; 19)	GR	← (0, 0 ; 18)	GR	E	223.603 26	3.3	8019
* 9147	R (3, 0 ; 18)	GR	← (2, 1 ; 17)	GR	E	223.603 26	−2.2	8019
* 9148	Q (2, −2 ; 19)	GR	← (1, −3 ; 19)	GR	E	223.606 08	−1.0	1386
* 9149	Q (2, −6 ; 10)	GR	← (1, −5 ; 10)	GR	E	223.623 98	0.1	5841
* 9150	Q (2, −2 ; 18)	GR	← (1, −3 ; 18)	GR	E	223.625 31	−0.1	1659

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 9151	Q (2, −2 ; 17) GR	←	(1, −3 ; 17) GR	E	223.644 74	−0.4	1782
* 9152	Q (2, −6 ; 9) GR	←	(1, −5 ; 9) GR	E	223.650 86	0.0	5643
* 9153	Q (2, −2 ; 16) GR	←	(1, −3 ; 16) GR	E	223.663 93	0.9	1782
* 9154	P (3, −1 ; 8) GR	←	(3, 0 ; 9) GR	E	223.670 16	0.0	3267
* 9155	Q (2, −6 ; 8) GR	←	(1, −5 ; 8) GR	E	223.674 31	1.2	5049
* 9156	Q (2, −2 ; 15) GR	←	(1, −3 ; 15) GR	E	223.682 63	−0.6	2079
* 9157	P (1, 3 ; 15) GR	←	(0, 2 −; 16) GR	A	223.688 43	−0.9	5346
* 9158	Q (2, −6 ; 7) GR	←	(1, −5 ; 7) GR	E	223.694 43	0.5	4455
* 9159	Q (2, −2 ; 14) GR	←	(1, −3 ; 14) GR	E	223.701 27	1.4	2970
9160	P (1, 9 ; 17) GR	←	(0, 8 ; 18) GR	A	223.706 52	−8.2	9306
* 9161	R (1, 0 ; 12) GR	←	(0, −1 ; 11) GR	E	223.707 14	−3.2	6198
* 9162	Q (2, −6 ; 6) GR	←	(1, −5 ; 6) GR	E	223.711 43	−0.2	3366
* 9163	Q (2, −2 ; 13) GR	←	(1, −3 ; 13) GR	E	223.718 93	−0.2	1881
* 9164	Q (2, −2 ; 12) GR	←	(1, −3 ; 12) GR	E	223.736 13	0.3	1485
* 9165	Q (2, −2 ; 11) GR	←	(1, −3 ; 11) GR	E	223.752 28	−0.4	1782
* 9166	P (4, −1 ; 10) GR	←	(3, −2 ; 11) GR	E	223.765 60	0.7	2871
* 9167	Q (2, −2 ; 10) GR	←	(1, −3 ; 10) GR	E	223.767 85	1.4	2079
* 9168	R (1, −2 ; 9) GR	←	(0, −3 ; 8) GR	E	223.774 12	−0.2	4653
* 9169	Q (2, −2 ; 9) GR	←	(1, −3 ; 9) GR	E	223.782 07	0.3	1881
* 9170	Q (2, −2 ; 8) GR	←	(1, −3 ; 8) GR	E	223.795 16	1.1	1485
* 9171	Q (2, −2 ; 7) GR	←	(1, −3 ; 7) GR	E	223.807 04	1.8	1980
* 9172	Q (2, −2 ; 6) GR	←	(1, −3 ; 6) GR	E	223.817 56	0.6	1386
* 9173	Q (2, −2 ; 5) GR	←	(1, −3 ; 5) GR	E	223.826 94	2.2	2079
* 9174	Q (1, 6 ; 34) GR	←	(0, 5 ; 34) GR	A	223.832 42	3.0	6435
* 9175	Q (2, −2 ; 4) GR	←	(1, −3 ; 4) GR	E	223.834 02	−3.2	2477
* 9176	R (1, 2 −; 16) GR	←	(0, 1 +; 15) GR	A	223.853 44	0.2	7029
* 9177	P (1, 2 ; 12) GR	←	(0, 3 ; 13) GR	E	223.903 79	−0.2	4653
* 9178	P (1, 5 ; 7) GR	←	(0, 4 ; 8) GR	A	223.994 25	−0.4	2673
* 9179	P (1, −4 ; 8) GR	←	(0, −3 ; 9) GR	E	224.052 94	0.6	4257
* 9180	P (1, 4 ; 8) GR	←	(0, 5 ; 9) GR	A	224.091 66	−0.6	7722
* 9181	P (1, −5 ; 14) GR	←	(0, −6 ; 15) GR	E	224.111 56	0.0	5544
* 9182	R (3, 1 +; 17) GR	←	(2, 2 ; 16) GR	A	224.179 53	0.6	4851
* 9183	R (3, 1 −; 17) GR	←	(2, 2 ; 16) GR	A	224.181 97	−0.4	4752
* 9184	P (1, 10 ; 27) GR	←	(0, 9 ; 28) GR	A	224.200 92	1.1	990
* 9185	P (1, −2 ; 15) GR	←	(0, −1 ; 16) GR	E	224.246 60	−0.9	3465
* 9186	R (1, 1 +; 16) GR	←	(0, 2 −; 15) GR	A	224.292 58	−0.4	6732
* 9187	Q (1, 6 ; 33) GR	←	(0, 5 ; 33) GR	A	224.294 61	0.4	2970
* 9188	P (2, 5 ; 27) GR	←	(1, 4 ; 28) GR	A	224.376 44	−1.2	1188
* 9189	P (1, 2 ; 23) GR	←	(0, 1 ; 24) GR	E	224.454 27	1.1	2673
* 9190	R (2, 4 ; 26) GR	←	(2, 3 ; 25) GR	E	224.463 34	0.3	5049
* 9191	R (3, 1 ; 20) GR	←	(2, 0 ; 19) GR	E	224.493 85	−0.4	5544
* 9192	R (1, 1 ; 25) GR	←	(0, 2 ; 24) GR	E	224.504 03	1.3	3960
* 9193	R (2, 5 ; 30) GR	←	(2, 4 ; 29) GR	A	224.510 85	−0.7	5148
* 9194	R (1, 2 +; 19) GR	←	(0, 1 −; 18) GR	A	224.533 17	0.9	6633
* 9195	R (1, 1 −; 16) GR	←	(0, 2 +; 15) GR	A	224.544 46	0.9	6633
* 9196	R (1, −4 ; 19) GR	←	(0, −5 ; 18) GR	E	224.659 38	2.0	3663
* 9197	P (1, −6 ; 19) GR	←	(0, −5 ; 20) GR	E	224.699 46	−0.4	1881
* 9198	R (1, 0 ; 20) GR	←	(0, 1 ; 19) GR	E	224.705 14	0.2	6534
* 9199	Q (1, 6 ; 32) GR	←	(0, 5 ; 32) GR	A	224.734 34	1.3	8019
* 9200	R (2, 8 ; 22) GR	←	(1, 7 ; 21) GR	A	224.734 34	−0.9	8019
* 9201	R (2, 6 ; 25) GR	←	(1, 5 ; 24) GR	E	224.839 46	−0.6	2970
* 9202	P (2, −6 ; 8) GR	←	(1, −7 ; 9) GR	E	224.859 21	1.8	1089
* 9203	R (1, −3 ; 12) GR	←	(0, −2 ; 11) GR	E	224.887 30	0.0	7425
* 9204	R (2, −3 ; 24) GR	←	(2, −2 ; 23) GR	E	224.958 60	0.8	5544
* 9205	P (1, 6 ; 7) GR	←	(0, 7 ; 8) GR	E	225.096 45	−1.9	5346
* 9206	P (1, −1 ; 25) GR	←	(0, −2 ; 26) GR	E	225.132 11	4.7	6237
* 9207	P (1, 3 ; 14) GR	←	(0, 2 +; 15) GR	A	225.132 11	−1.6	6237
* 9208	R (3, 0 ; 19) GR	←	(2, 1 ; 18) GR	E	225.136 60	−0.6	5049
* 9209	Q (1, 6 ; 31) GR	←	(0, 5 ; 31) GR	A	225.153 77	0.3	5544
* 9210	P (3, 2 ; 6) GR	←	(3, 1 ; 7) GR	E	225.158 55	−0.1	2574
* 9211	P (3, −1 ; 7) GR	←	(3, 0 ; 8) GR	E	225.250 20	−0.9	3184
* 9212	R (1, 0 ; 13) GR	←	(0, −1 ; 12) GR	E	225.251 85	1.2	5544
* 9213	Q (1, 1 +; 25) GR	←	(0, 0 +; 25) GR	A	225.258 05	0.7	6732
* 9214	Q (1, 1 +; 26) GR	←	(0, 0 +; 26) GR	A	225.260 91	−0.6	6534
* 9215	Q (1, 1 +; 24) GR	←	(0, 0 +; 24) GR	A	225.264 22	0.4	6633
* 9216	Q (1, 1 +; 27) GR	←	(0, 0 +; 27) GR	A	225.273 92	0.3	6039
* 9217	Q (1, 1 +; 23) GR	←	(0, 0 +; 23) GR	A	225.278 98	0.3	7029
* 9218	R (1, 1 ; 20) GR	←	(0, 0 ; 19) GR	E	225.286 98	0.8	4950
* 9219	P (1, 3 ; 14) GR	←	(0, 2 −; 15) GR	A	225.293 76	0.4	5148
* 9220	Q (1, 1 +; 28) GR	←	(0, 0 +; 28) GR	A	225.297 50	0.3	5346
9221	R (1, −2 ; 10) GR	←	(0, −3 ; 9) GR	E	225.301 28	4.5	8316
* 9222	Q (1, 1 +; 22) GR	←	(0, 0 +; 22) GR	A	225.301 28	−0.6	8316
* 9223	Q (1, 1 +; 21) GR	←	(0, 0 +; 21) GR	A	225.330 69	−0.7	7425
* 9224	Q (1, 1 +; 29) GR	←	(0, 0 +; 29) GR	A	225.332 34	0.1	4950
* 9225	P (1, 9 ; 16) GR	←	(0, 8 ; 17) GR	A	225.340 59	0.7	1881

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 9226	P (4, −1 ; 9) GR	←	(3, −2 ; 10) GR	E	225.347 10	0.9	3465
* 9227	Q (1, 1 +; 20) GR	←	(0, 0 +; 20) GR	A	225.365 95	−0.3	7524
* 9228	Q (1, 1 +; 30) GR	←	(0, 0 +; 30) GR	A	225.379 10	−0.4	4653
* 9229	Q (1, 1 +; 19) GR	←	(0, 0 +; 19) GR	A	225.406 32	−0.1	7623
* 9230	Q (1, 1 +; 31) GR	←	(0, 0 +; 31) GR	A	225.438 06	1.2	4059
* 9231	Q (1, 1 +; 18) GR	←	(0, 0 +; 18) GR	A	225.450 88	0.6	7524
* 9232	Q (1, 1 +; 17) GR	←	(0, 0 +; 17) GR	A	225.498 89	1.0	8217
* 9233	Q (1, 1 +; 32) GR	←	(0, 0 +; 32) GR	A	225.509 88	0.0	4851
* 9234	P (1, 2 ; 11) GR	←	(0, 3 ; 12) GR	E	225.533 79	−0.6	4851
* 9235	Q (1, 1 +; 16) GR	←	(0, 0 +; 16) GR	A	225.549 40	−1.1	8019
* 9236	Q (1, 6 ; 30) GR	←	(0, 5 ; 30) GR	A	225.553 07	−0.1	6732
* 9237	R (1, 2 −; 1) GR	←	(0, 1 +; 16) GR	A	225.577 54	0.1	6930
* 9238	P (1, 5 ; 6) GR	←	(0, 4 ; 7) GR	A	225.599 22	−0.7	4851
* 9239	Q (1, 1 +; 15) GR	←	(0, 0 +; 15) GR	A	225.601 59	1.0	7821
* 9240	Q (1, 1 +; 14) GR	←	(0, 0 +; 14) GR	A	225.654 71	0.7	8019
* 9241	P (1, −4 ; 7) GR	←	(0, −3 ; 8) GR	E	225.659 65	−0.5	3564
* 9242	P (1, 4 ; 7) GR	←	(0, 5 ; 8) GR	A	225.692 85	−0.7	7821
* 9243	Q (1, 1 +; 13) GR	←	(0, 0 +; 13) GR	A	225.707 87	−0.1	7920
* 9244	R (3, 1 +; 18) GR	←	(2, 2 ; 17) GR	A	225.713 14	1.1	4554
* 9245	R (3, 1 −; 18) GR	←	(2, 2 ; 17) GR	A	225.715 85	0.2	4554
* 9246	P (1, −5 ; 13) GR	←	(0, −6 ; 14) GR	E	225.722 95	0.5	5049
* 9247	Q (1, 1 +; 12) GR	←	(0, 0 +; 12) GR	A	225.760 49	0.6	8217
* 9248	R (1, 1 +; 17) GR	←	(0, 2 −; 16) GR	A	225.775 68	0.9	6336
* 9249	R (1, 2 +; 20) GR	←	(0, 1 −; 19) GR	A	225.793 35	−0.3	6435
* 9250	Q (1, 1 +; 11) GR	←	(0, 0 +; 11) GR	A	225.811 78	−0.4	8316
* 9251	P (1, −2 ; 14) GR	←	(0, −1 ; 15) GR	E	225.823 80	−0.2	3267
9252	P (1, 10 ; 26) GR	←	(0, 9 ; 27) GR	A	225.855 19	−1.5	1683
* 9253	Q (1, 1 +; 10) GR	←	(0, 0 +; 10) GR	A	225.861 18	−0.2	8118
* 9254	R (1, 4 ; 4) GR	←	(0, 3 ; 3) GR	E	225.872 19	1.0	7326
* 9255	Q (1, 1 +; 9) GR	←	(0, 0 +; 9) GR	A	225.907 95	−0.2	8712
* 9256	Q (1, 6 ; 29) GR	←	(0, 5 ; 29) GR	A	225.931 69	−0.1	6732
9257	R (1, 1 ; 26) GR	←	(0, 2 ; 25) GR	E	225.950 11	−3.8	2888
* 9258	Q (1, 1 +; 8) GR	←	(0, 0 +; 8) GR	A	225.951 54	−1.4	8217
* 9259	R (2, 4 ; 27) GR	←	(2, 3 ; 26) GR	E	225.990 16	−0.7	5358
* 9260	Q (1, 1 +; 7) GR	←	(0, 0 +; 7) GR	A	225.991 77	0.0	7425
* 9261	R (3, 1 ; 21) GR	←	(2, 0 ; 20) GR	E	226.023 41	1.1	6435
* 9262	Q (1, 1 +; 6) GR	←	(0, 0 +; 6) GR	A	226.027 86	0.1	7623
9263	R (1, 1 −; 17) GR	←	(0, 2 +; 16) GR	A	226.033 32	4.7	8613
* 9264	R (2, 5 ; 31) GR	←	(2, 4 ; 30) GR	A	226.035 53	1.9	4752
* 9265	Q (1, 1 +; 5) GR	←	(0, 0 +; 5) GR	A	226.059 60	0.5	7623
* 9266	Q (1, 1 +; 4) GR	←	(0, 0 +; 4) GR	A	226.086 53	−0.3	7128
* 9267	R (2, 0 ; 2) GR	←	(1, −1 ; 1) GR	E	226.103 27	−0.5	1089
* 9268	Q (1, 1 +; 3) GR	←	(0, 0 +; 3) GR	A	226.108 60	1.7	8415
* 9269	P (1, 2 ; 22) GR	←	(0, 1 ; 23) GR	E	226.115 08	−1.1	2871
* 9270	Q (1, 1 +; 2) GR	←	(0, 0 +; 2) GR	A	226.124 89	−1.3	6138
* 9271	Q (1, 1 +; 1) GR	←	(0, 0 +; 1) GR	A	226.136 00	−1.2	4554
* 9272	R (1, 0 ; 21) GR	←	(0, 1 ; 20) GR	E	226.146 79	0.3	6336
* 92 3	R (1, −4 ; 20) GR	←	(0, −5 ; 19) GR	E	226.169 60	−2.0	3267
* 9274	P (2, 5 ; 26) GR	←	(1, 4 ; 27) GR	A	226.185 75	−0.8	1683
* 9275	R (2, 6 ; 26) GR	←	(1, 5 ; 25) GR	E	226.206 70	−0.9	2574
* 9276	R (2, 8 ; 23) GR	←	(1, 7 ; 22) GR	A	226.249 73	0.9	7326
* 9277	Q (1, 6 ; 28) GR	←	(0, 5 ; 28) GR	A	226.289 59	−0.5	7029
* 9278	P (1, −6 ; 18) GR	←	(0, −5 ; 19) GR	E	226.366 99	0.6	1782
* 9279	R (1, −3 ; 13) GR	←	(0, −2 ; 12) GR	E	226.371 92	0.2	7524
* 9280	P (2, −6 ; 7) GR	←	(1, −7 ; 8) GR	E	226.438 32	0.3	990
* 9281	R (2, −3 ; 25) GR	←	(2, −2 ; 24) GR	E	226.487 36	0.3	5049
* 9282	Q (1, 6 ; 27) GR	←	(0, 5 ; 27) GR	A	226.626 92	0.2	7029
* 9283	R (3, 0 ; 20) GR	←	(2, 1 ; 19) GR	E	226.667 34	0.1	4851
* 9284	P (1, 6 ; 6) GR	←	(0, 7 ; 7) GR	E	226.693 68	−0.5	4851
* 9285	P (3, 2 ; 5) GR	←	(3, 1 ; 6) GR	E	226.735 38	−0.9	2277
* 9286	P (1, 3 ; 13) GR	←	(0, 2 +; 14) GR	A	226.777 01	0.5	5346
* 9287	R (1, 0 ; 14) GR	←	(0, −1 ; 13) GR	E	226.798 13	0.2	4554
* 9288	R (1, −2 ; 11) GR	←	(0, −3 ; 10) GR	E	226.821 56	0.2	5148
* 9289	P (3, −1 ; 6) GR	←	(3, 0 ; 7) GR	E	226.828 73	−0.6	2673
* 9290	P (1, 3 ; 13) GR	←	(0, 2 −; 14) GR	A	226.900 65	−0.8	5940
* 9291	P (4, −1 ; 8) GR	←	(3, −2 ; 9) GR	E	226.926 91	0.7	3069
* 9292	Q (1, 6 ; 26) GR	←	(0, 5 ; 26) GR	A	226.943 72	−0.2	7029
* 9293	P (1, 9 ; 15) GR	←	(0, 8 ; 16) GR	A	226.968 98	0.8	1485
* 9294	R (1, 1 ; 21) GR	←	(0, 0 ; 20) GR	E	226.989 34	−0.7	4950
* 9295	R (1, 2 +; 21) GR	←	(0, 1 −; 20) GR	A	227.041 09	0.5	5940
* 9296	P (1, −1 ; 24) GR	←	(0, −2 ; 25) GR	E	227.062 20	1.0	3465
9297	P (1, 2 ; 10) GR	←	(0, 3 ; 11) GR	E	227.157 51	−5.4	5049
* 9298	R (1, 3 ; 5) GR	←	(0, 4 ; 4) GR	A	227.177 43	2.8	594
* 9299	P (1, 5 ; 5) GR	←	(0, 4 ; 6) GR	A	227.199 47	−1.0	1188
* 9300	Q (1, 6 ; 25) GR	←	(0, 5 ; 25) GR	A	227.240 18	−0.7	7920



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 9301	R (3, 1 +; 19) GR	←	(2, 2 ; 18) GR	A	227.244 52	0.7	4455
* 9302	R (3, 1 −; 19) GR	←	(2, 2 ; 18) GR	A	227.247 27	−0.4	4257
* 9303	R (1, 1 +; 18) GR	←	(0, 2 −; 17) GR	A	227.254 77	1.2	5940
* 9304	P (1, −4 ; 6) GR	←	(0, −3 ; 7) GR	E	227.263 03	0.4	3069
* 9305	P (1, 4 ; 6) GR	←	(0, 5 ; 7) GR	A	227.292 15	−0.6	7722
* 9306	R (1, 2 −; 18) GR	←	(0, 1 +; 17) GR	A	227.312 71	0.9	7029
* 9307	P (1, −5 ; 12) GR	←	(0, −6 ; 13) GR	E	227.333 53	0.5	5445
* 9308	R (1, 1 ; 27) GR	←	(0, 2 ; 26) GR	E	227.400 50	1.0	3861
* 9309	P (1, −2 ; 13) GR	←	(0, −1 ; 14) GR	E	227.406 55	1.0	3762
* 9310	R (1, 4 ; 5) GR	←	(0, 3 ; 4) GR	E	227.424 47	−0.2	7524
* 9311	Q (1, −7 ; 36) GR	←	(0, −6 ; 36) GR	E	227.485 11	0.1	1782
* 9312	P (1, 10 ; 25) GR	←	(0, 9 ; 26) GR	A	227.509 17	−0.4	1683
* 9313	R (1, 1 −; 18) GR	←	(0, 2 +; 17) GR	A	227.511 62	−0.4	6237
* 9314	R (2, 4 ; 28) GR	←	(2, 3 ; 27) GR	E	227.515 15	0.1	4292
* 9315	Q (1, 6 ; 24) GR	←	(0, 5 ; 24) GR	A	227.516 27	−1.6	7920
* 9316	R (3, 1 ; 22) GR	←	(2, 0 ; 21) GR	E	227.550 36	−0.3	5148
* 9317	R (2, 5 ; 32) GR	←	(2, 4 ; 31) GR	A	227.557 58	−0.6	5148
* 9318	R (2, 6 ; 27) GR	←	(1, 5 ; 26) GR	E	227.559 01	−1.3	1838
* 9319	R (1, 0 ; 22) GR	←	(0, 1 ; 21) GR	E	227.579 76	0.9	6534
* 9320	R (2, 0 ; 3) GR	←	(1, −1 ; 2) GR	E	227.666 92	0.5	3069
* 9321	R (1, −4 ; 21) GR	←	(0, −5 ; 20) GR	E	227.679 07	0.4	2475
* 9322	R (1, 1 −; 1) GR	←	(0, 0 +; 0) GR	A	227.713 75	0.9	3861
* 9323	R (2, 8 ; 24) GR	←	(1, 7 ; 23) GR	A	227.761 72	0.4	7326
* 9324	Q (1, 6 ; 23) GR	←	(0, 5 ; 23) GR	A	227.773 06	0.6	7821
* 9325	P (1, 2 ; 21) GR	←	(0, 1 ; 22) GR	E	227.775 79	−1.1	3564
* 9326	R (1, −3 ; 14) GR	←	(0, −2 ; 13) GR	E	227.842 74	−0.2	7722
* 9327	Q (1, −7 ; 35) GR	←	(0, −6 ; 35) GR	E	227.873 97	−0.2	1683
* 9328	P (2, 5 ; 25) GR	←	(1, 4 ; 26) GR	A	227.980 25	0.6	1584
* 9329	Q (1, 6 ; 22) GR	←	(0, 5 ; 22) GR	A	228.010 06	−0.8	8118
* 9330	R (2, −3 ; 26) GR	←	(2, −2 ; 25) GR	E	228.014 15	0.5	4752
9331	P (2, −6 ; 6) GR	←	(1, −7 ; 7) GR	E	228.016 76	−3.5	1188
9332	P (1, −6 ; 17) GR	←	(0, −5 ; 18) GR	E	228.027 42	−6.7	2420
* 9333	R (3, 0 ; 21) GR	←	(2, 1 ; 20) GR	E	228.195 65	0.4	4752
* 9334	Q (1, 6 ; 21) GR	←	(0, 5 ; 21) GR	A	228.228 19	−1.4	8019
9335	Q (1, −7 ; 34) GR	←	(0, −6 ; 34) GR	E	228.243 33	−7.4	7326
* 9336	R (1, 2 +; 22) GR	←	(0, 1 −; 21) GR	A	228.277 15	0.6	5742
* 9337	P (3, 2 ; 4) GR	←	(3, 1 ; 5) GR	E	228.310 42	−0.6	1980
* 9338	R (1, −2 ; 12) GR	←	(0, −3 ; 11) GR	E	228.335 99	0.2	5247
* 9339	R (1, 0 ; 15) GR	←	(0, −1 ; 14) GR	E	228.347 83	0.3	4653
* 9340	P (3, −1 ; 5) GR	←	(3, 0 ; 6) GR	E	228.405 64	−0.8	3069
* 9341	P (1, 3 ; 12) GR	←	(0, 2 +; 13) GR	A	228.415 62	−0.1	5841
* 9342	Q (1, 6 ; 20) GR	←	(0, 5 ; 20) GR	A	228.428 05	0.1	8316
* 9343	P (4, −1 ; 7) GR	←	(3, −2 ; 8) GR	E	228.505 17	−0.9	2772
* 9344	P (1, 3 ; 12) GR	←	(0, 2 −; 13) GR	A	228.508 77	1.6	7326
* 9345	P (1, 9 ; 14) GR	←	(0, 8 ; 15) GR	A	228.592 64	−1.7	1881
* 9346	Q (1, −7 ; 33) GR	←	(0, −6 ; 33) GR	E	228.594 79	−0.2	2277
* 9347	Q (1, 6 ; 19) GR	←	(0, 5 ; 19) GR	A	228.610 21	−0.3	8217
* 9348	R (1, 1 ; 22) GR	←	(0, 0 ; 21) GR	E	228.710 39	0.7	4257
* 9349	R (1, 3 ; 6) GR	←	(0, 4 ; 5) GR	A	228.727 77	2.7	1683
* 9350	R (1, 1 +; 19) GR	←	(0, 2 −; 18) GR	A	228.730 25	0.6	5841
* 9351	R (3, 1 +; 20) GR	←	(2, 2 ; 19) GR	A	228.773 33	0.2	4006
* 9352	Q (1, 6 ; 18) GR	←	(0, 5 ; 18) GR	A	228.775 81	2.4	9108
* 9353	R (3, 1 −; 20) GR	←	(2, 2 ; 19) GR	A	228.776 58	−1.5	5653
* 9354	P (1, 2 ; 9) GR	←	(0, 3 ; 10) GR	E	228.776 58	−2.0	5653
* 9355	R (1, 1 ; 28) GR	←	(0, 2 ; 27) GR	E	228.853 70	0.8	2673
* 9356	P (1, −4 ; 5) GR	←	(0, −3 ; 6) GR	E	228.862 65	−0.9	2178
* 9357	P (1, 4 ; 5) GR	←	(0, 5 ; 6) GR	A	228.888 91	−0.5	7920
* 9358	R (2, 6 ; 28) GR	←	(1, 5 ; 27) GR	E	228.896 93	1.7	1782
* 9359	Q (1, 6 ; 17) GR	←	(0, 5 ; 17) GR	A	228.924 68	0.3	8613
* 9360	Q (1, −7 ; 32) GR	←	(0, −6 ; 32) GR	E	228.926 93	−1.7	2970
* 9361	P (1, −5 ; 11) GR	←	(0, −6 ; 12) GR	E	228.942 90	−0.2	5544
* 9362	P (1, −1 ; 23) GR	←	(0, −2 ; 24) GR	E	228.969 44	0.4	4158
* 9363	R (1, 4 ; 6) GR	←	(0, 3 ; 5) GR	E	228.971 84	−0.6	7623
* 9364	R (1, 1 −; 19) GR	←	(0, 2 +; 18) GR	A	228.979 51	0.1	6039
* 9365	P (1, −2 ; 12) GR	←	(0, −1 ; 13) GR	E	228.993 73	0.3	3465
* 9366	R (1, 0 ; 23) GR	←	(0, 1 ; 22) GR	E	229.004 09	0.7	5841
* 9367	R (2, 4 ; 29) GR	←	(2, 3 ; 28) GR	E	229.037 95	−0.5	3663
* 9368	Q (1, 6 ; 16) GR	←	(0, 5 ; 16) GR	A	229.058 82	0.9	9207
* 9369	R (1, 2 −; 19) GR	←	(0, 1 +; 18) GR	A	229.058 82	−2.0	9207
* 9370	R (3, 1 ; 23) GR	←	(2, 0 ; 22) GR	E	229.075 01	1.2	4851
* 9371	R (2, 5 ; 33) GR	←	(2, 4 ; 32) GR	A	229.077 77	−0.9	4059
* 9372	P (1, 10 ; 24) GR	←	(0, 9 ; 25) GR	A	229.162 33	0.1	1485
* 9373	Q (1, 6 ; 15) GR	←	(0, 5 ; 15) GR	A	229.178 53	1.0	8415
* 9374	R (1, −4 ; 22) GR	←	(0, −5 ; 21) GR	E	229.186 99	−1.3	2574
* 9375	R (2, 0 ; 4) GR	←	(1, −1 ; 3) GR	E	229.228 00	0.4	2079
* 9376	Q (1, −7 ; 31) GR	←	(0, −6 ; 31) GR	E	229.240 83	−1.1	2970
* 9377	R (2, 8 ; 25) GR	←	(1, 7 ; 24) GR	A	229.270 29	0.1	7029
9378	R (1, 1 −; 2) GR	←	(0, 0 +; 1) GR	A	229.283 44	3.4	0
* 9379	Q (1, 6 ; 14) GR	←	(0, 5 ; 14) GR	A	229.285 19	1.0	0
* 9380	R (1, −3 ; 15) GR	←	(0, −2 ; 14) GR	E	229.297 87	−0.7	7128
* 9381	Q (1, 6 ; 13) GR	←	(0, 5 ; 13) GR	A	229.379 30	0.6	8613
* 9382	P (1, 2 ; 20) GR	←	(0, 1 ; 21) GR	E	229.435 53	−0.1	3663
* 9383	Q (1, 6 ; 12) GR	←	(0, 5 ; 12) GR	A	229.462 23	0.8	8316
* 9384	R (1, 2 +; 23) GR	←	(0, 1 −; 22) GR	A	229.502 24	−0.1	5445
* 9385	Q (1, 6 ; 11) GR	←	(0, 5 ; 11) GR	A	229.534 74	0.0	8514
* 9386	Q (1, −7 ; 30) GR	←	(0, −6 ; 30) GR	E	229.536 80	−0.6	3861
* 9387	R (2, −3 ; 27) GR	←	(2, −2 ; 26) GR	E	229.538 89	1.4	4356
* 9388	Q (1, 6 ; 10) GR	←	(0, 5 ; 10) GR	A	229.597 86	0.3	8316
* 9389	Q (1, 6 ; 9) GR	←	(0, 5 ; 9) GR	A	229.652 32	−0.5	8118
* 9390	P (1, −6 ; 16) GR	←	(0, −5 ; 17) GR	E	229.682 86	−3.1	1881
* 9391	Q (1, 6 ; 8) GR	←	(0, 5 ; 8) GR	A	229.699 00	0.3	7920
* 9392	R (3, 0 ; 22) GR	←	(2, 1 ; 21) GR	E	229.721 48	−0.9	4356
* 9393	Q (1, 6 ; 7) GR	←	(0, 5 ; 7) GR	A	229.738 59	−0.7	7425
* 9394	P (2, 5 ; 24) GR	←	(1, 4 ; 25) GR	A	229.759 45	0.6	1287
* 9395	Q (1, 6 ; 6) GR	←	(0, 5 ; 6) GR	A	229.771 72	−0.4	6435
* 9396	Q (1, −7 ; 29) GR	←	(0, −6 ; 29) GR	E	229.815 38	−0.5	3564
* 9397	R (1, −2 ; 13) GR	←	(0, −3 ; 12) GR	E	229.843 68	0.2	5841
* 9398	P (3, 2 ; 3) GR	←	(3, 1 ; 4) GR	E	229.884 74	2.6	2475
* 9399	R (1, 0 ; 16) GR	←	(0, −1 ; 15) GR	E	229.902 05	2.3	4653
* 9400	P (3, −1 ; 4) GR	←	(3, 0 ; 5) GR	E	229.980 89	−0.8	1980
* 9401	P (1, 3 ; 11) GR	←	(0, 2 +; 12) GR	A	230.048 35	−0.1	5445
9402	Q (1, −7 ; 28) GR	←	(0, −6 ; 28) GR	E	230.076 39	−4.0	5049
* 9403	P (4, −1 ; 6) GR	←	(3, −2 ; 7) GR	E	230.082 19	−2.1	2673
* 9404	P (1, 3 ; 11) GR	←	(0, 2 −; 12) GR	A	230.116 60	−0.5	5346
* 9405	R (1, 1 +; 20) GR	←	(0, 2 −; 19) GR	A	230.202 40	1.1	5544
9406	P (1, 9 ; 13) GR	←	(0, 8 ; 14) GR	A	230.212 99	8.2	3861
9407	R (2, 6 ; 29) GR	←	(1, 5 ; 28) GR	E	230.220 56	8.7	2277
* 9408	R (1, 3 ; 7) GR	←	(0, 4 ; 6) GR	A	230.273 77	1.4	2178
* 9409	R (3, 1 +; 21) GR	←	(2, 2 ; 20) GR	A	230.299 84	1.6	3762
* 9410	R (3, 1 −; 21) GR	←	(2, 2 ; 20) GR	A	230.303 42	−1.5	3762
* 9411	R (1, 1 ; 29) GR	←	(0, 2 ; 28) GR	E	230.310 16	−0.7	2673
* 9412	Q (1, −7 ; 27) GR	←	(0, −6 ; 27) GR	E	230.321 81	0.3	6435
* 9413	P (1, 2 ; 8) GR	←	(0, 3 ; 9) GR	E	230.390 06	−2.8	7326
9414	R (1, 0 ; 24) GR	←	(0, 1 ; 23) GR	E	230.420 71	4.2	7326
* 9415	R (1, 1 −; 20) GR	←	(0, 2 +; 19) GR	A	230.436 01	0.3	6138
* 9416	R (1, 1 ; 23) GR	←	(0, 0 ; 22) GR	E	230.449 45	−2.8	3084
* 9417	P (1, −4 ; 4) GR	←	(0, −3 ; 5) GR	E	230.458 58	−0.2	1089
* 9418	P (1, 4 ; 4) GR	←	(0, 5 ; 5) GR	A	230.482 77	0.3	7524
* 9419	R (1, 4 ; 7) GR	←	(0, 3 ; 6) GR	E	230.513 99	0.0	7425
* 9420	P (1, −5 ; 10) GR	←	(0, −6 ; 11) GR	E	230.550 67	0.2	7227
* 9421	Q (1, −7 ; 26) GR	←	(0, −6 ; 26) GR	E	230.550 67	−0.5	7227
* 9422	R (2, 4 ; 30) GR	←	(2, 3 ; 29) GR	E	230.558 47	1.5	3465
* 9423	P (1, −2 ; 11) GR	←	(0, −1 ; 12) GR	E	230.584 39	−0.3	3366
9424	R (2, 5 ; 34) GR	←	(2, 4 ; 33) GR	A	230.596 49	9.1	5148
* 9425	R (3, 1 ; 24) GR	←	(2, 0 ; 23) GR	E	230.596 49	−1.6	5148
* 9426	R (1, −4 ; 23) GR	←	(0, −5 ; 22) GR	E	230.694 22	0.3	1980
* 9427	R (1, 2 +; 24) GR	←	(0, 1 −; 23) GR	A	230.717 61	0.7	4950
* 9428	R (1, −3 ; 16) GR	←	(0, −2 ; 15) GR	E	230.735 38	0.1	7722
* 9429	Q (1, −7 ; 25) GR	←	(0, −6 ; 25) GR	E	230.764 19	−0.4	5148
* 9430	R (2, 8 ; 26) GR	←	(1, 7 ; 25) GR	A	230.775 57	0.9	6633
* 9431	R (2, 0 ; 5) GR	←	(1, −1 ; 4) GR	E	230.786 44	−0.6	2376
* 9432	P (1, 10 ; 23) GR	←	(0, 9 ; 24) GR	A	230.814 56	0.4	2376
* 9433	R (1, 2 −; 20) GR	←	(0, 1 +; 19) GR	A	230.817 02	0.5	6435
* 9434	R (1, 1 −; 3) GR	←	(0, 0 +; 2) GR	A	230.850 10	0.9	5643
* 9435	P (1, −1 ; 22) GR	←	(0, −2 ; 23) GR	E	230.852 49	0.3	4059
* 9436	Q (1, −7 ; 24) GR	←	(0, −6 ; 24) GR	E	230.962 81	0.2	5742
* 9437	R (2, −3 ; 28) GR	←	(2, −2 ; 27) GR	E	231.061 30	0.3	3960
* 9438	P (1, 2 ; 19) GR	←	(0, 1 ; 20) GR	E	231.093 30	0.0	3861
* 9439	R (1, 3 ; 5) GR	←	(0, 4 ; 4) GR	E	231.131 31	−0.4	693
* 9440	Q (1, −7 ; 23) GR	←	(0, −6 ; 23) GR	E	231.147 17	0.1	5643
* 9441	R (3, 0 ; 23) GR	←	(2, 1 ; 22) GR	E	231.244 89	0.7	3960
* 9442	Q (1, −7 ; 22) GR	←	(0, −6 ; 22) GR	E	231.317 87	0.0	6237
* 9443	P (1, −6 ; 15) GR	←	(0, −5 ; 16) GR	E	231.332 35	−1.0	1980
* 9444	R (1, −2 ; 14) GR	←	(0, −3 ; 13) GR	E	231.344 44	−0.2	5544
* 9445	Q (1, 5 ; 19) GR	←	(0, 4 ; 19) GR	E	231.353 40	0.2	6930
* 9446	Q (1, 5 ; 20) GR	←	(0, 4 ; 20) GR	E	231.355 90	−0.8	6831
* 9447	Q (1, 5 ; 18) GR	←	(0, 4 ; 18) GR	E	231.358 08	0.8	6831
* 9448	Q (1, 5 ; 21) GR	←	(0, 4 ; 21) GR	E	231.366 58	0.4	6237
* 9449	Q (1, 5 ; 17) GR	←	(0, 4 ; 17) GR	E	231.369 29	0.1	7128
9450	Q (1, 5 ; 22) GR	←	(0, 4 ; 22) GR	E	231.386 04	4.5	8811



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
9451	Q (1, 5 ; 16) GR	←	(0, 4 ; 16) GR	E	231.386 04	−4.2	8811
* 9452	Q (1, 5 ; 15) GR	←	(0, 4 ; 15) GR	E	231.408 37	0.5	7128
* 9453	Q (1, 5 ; 23) GR	←	(0, 4 ; 23) GR	E	231.413 42	−0.5	5049
* 9454	Q (1, 5 ; 14) GR	←	(0, 4 ; 14) GR	E	231.434 36	−0.1	7425
* 9455	Q (1, 5 ; 24) GR	←	(0, 4 ; 24) GR	E	231.450 52	−0.6	4950
* 9456	R (1, 0 ; 17) GR	←	(0, −1 ; 16) GR	E	231.461 23	0.2	4356
* 9457	Q (1, 5 ; 13) GR	←	(0, 4 ; 13) GR	E	231.463 59	0.7	7722
* 9458	Q (1, −7 ; 21) GR	←	(0, −6 ; 21) GR	E	231.475 63	0.2	6732
* 9459	Q (1, 5 ; 12) GR	←	(0, 4 ; 12) GR	E	231.494 98	0.1	7722
* 9460	Q (1, 5 ; 25) GR	←	(0, 4 ; 25) GR	E	231.497 22	0.7	4257
* 9461	P (2, 5 ; 23) GR	←	(1, 4 ; 24) GR	A	231.523 89	−0.1	1683
* 9462	Q (1, 5 ; 11) GR	←	(0, 4 ; 11) GR	E	231.527 90	0.5	7821
9463	R (2, 6 ; 30) GR	←	(1, 5 ; 29) GR	E	231.527 90	−8.8	7821
* 9464	Q (1, 5 ; 26) GR	←	(0, 4 ; 26) GR	E	231.553 40	0.6	3762
* 9465	P (3, −1 ; 3) GR	←	(3, 0 ; 4) GR	E	231.554 33	−1.2	1999
* 9466	Q (1, 5 ; 10) GR	←	(0, 4 ; 10) GR	E	231.561 14	0.7	7524
* 9467	Q (1, 5 ; 9) GR	←	(0, 4 ; 9) GR	E	231.594 14	0.9	7524
* 9468	Q (1, 5 ; 27) GR	←	(0, 4 ; 27) GR	E	231.618 98	−0.5	3366
* 9469	Q (1, −7 ; 20) GR	←	(0, −6 ; 20) GR	E	231.620 97	0.4	6534
* 9470	Q (1, 5 ; 8) GR	←	(0, 4 ; 8) GR	E	231.626 02	−0.2	6930
* 9471	Q (1, 5 ; 7) GR	←	(0, 4 ; 7) GR	E	231.656 31	1.0	7029
* 9472	P (4, −1 ; 5) GR	←	(3, −2 ; 6) GR	E	231.657 16	−2.3	3090
* 9473	R (1, 1 +; 21) GR	←	(0, 2 −; 20) GR	A	231.671 45	0.5	5346
* 9474	P (1, 3 ; 10) GR	←	(0, 2 +; 11) GR	A	231.675 59	0.8	5643
* 9475	Q (1, 5 ; 6) GR	←	(0, 4 ; 6) GR	E	231.684 02	−0.4	6633
* 9476	Q (1, 5 ; 28) GR	←	(0, 4 ; 28) GR	E	231.694 41	0.9	2871
* 9477	Q (1, 5 ; 5) GR	←	(0, 4 ; 5) GR	E	231.708 75	−1.4	5148
* 9478	P (1, 3 ; 10) GR	←	(0, 2 −; 11) GR	A	231.724 27	−0.3	5148
* 9479	Q (1, −7 ; 19) GR	←	(0, −6 ; 19) GR	E	231.754 49	−0.3	6732
* 9480	P (1, 9 ; 27) GR	←	(0, 8 ; 28) GR	E	231.768 64	0.2	1055
* 9481	R (1, 1 ; 30) GR	←	(0, 2 ; 29) GR	E	231.769 80	1.0	1881
9482	Q (1, 5 ; 29) GR	←	(0, 4 ; 29) GR	E	231.778 47	−5.9	4059
* 9483	R (1, 3 ; 8) GR	←	(0, 4 ; 7) GR	A	231.815 53	0.3	2574
* 9484	R (3, 1 +; 22) GR	←	(2, 2 ; 21) GR	A	231.823 89	1.7	3861
9485	P (1, 9 ; 12) GR	←	(0, 8 ; 13) GR	A	231.828 15	5.9	7128
* 9486	R (3, 1 −; 22) GR	←	(2, 2 ; 21) GR	A	231.828 15	0.0	7128
* 9487	R (1, 0 ; 25) GR	←	(0, 1 ; 24) GR	E	231.828 15	−2.2	7128
* 9488	Q (1, 5 ; 30) GR	←	(0, 4 ; 30) GR	E	231.872 89	0.4	1881
* 9489	Q (1, −7 ; 18) GR	←	(0, −6 ; 18) GR	E	231.877 01	0.0	7029
* 9490	R (1, 1 −; 21) GR	←	(0, 2 +; 20) GR	A	231.880 22	−0.7	5841
* 9491	R (1, 2 +; 25) GR	←	(0, 1 −; 24) GR	A	231.924 11	1.6	4158
* 9492	Q (1, 5 ; 31) GR	←	(0, 4 ; 31) GR	E	231.976 04	0.5	1683
* 9493	Q (1, −7 ; 17) GR	←	(0, −6 ; 17) GR	E	231.988 89	−0.4	7128
* 9494	P (1, 2 ; 7) GR	←	(0, 3 ; 8) GR	E	231.998 91	−0.2	4653
9495	R (1, 4 ; 8) GR	←	(0, 3 ; 7) GR	E	232.050 13	−4.2	8613
* 9496	R (2, 4 ; 31) GR	←	(2, 3 ; 30) GR	E	232.076 57	−0.3	3762
* 9497	Q (1, 5 ; 32) GR	←	(0, 4 ; 32) GR	E	232.087 14	−5.3	2574
* 9498	Q (1, −7 ; 16) GR	←	(0, −6 ; 16) GR	E	232.091 04	0.2	6930
* 9499	R (2, 5 ; 35) GR	←	(2, 4 ; 34) GR	A	232.111 01	−2.6	2673
* 9500	R (3, 1 ; 25) GR	←	(2, 0 ; 24) GR	E	232.116 17	0.4	4538
* 9501	R (1, −3 ; 17) GR	←	(0, −2 ; 16) GR	E	232.153 04	1.5	7821
* 9502	P (1, −5 ; 9) GR	←	(0, −6 ; 10) GR	E	232.156 51	−0.1	5742
* 9503	P (1, −2 ; 10) GR	←	(0, −1 ; 11) GR	E	232.177 66	0.1	3762
* 9504	Q (1, −7 ; 15) GR	←	(0, −6 ; 15) GR	E	232.183 81	−0.3	7326
* 9505	R (1, −4 ; 24) GR	←	(0, −5 ; 23) GR	E	232.200 56	0.2	2178
* 9506	R (1, 1 ; 24) GR	←	(0, 0 ; 23) GR	E	232.207 78	1.0	4059
* 9507	Q (1, 5 ; 33) GR	←	(0, 4 ; 33) GR	E	232.207 78	−0.9	4059
* 9508	Q (1, −7 ; 14) GR	←	(0, −6 ; 14) GR	E	232.267 83	0.2	7029
* 9509	R (2, 8 ; 27) GR	←	(1, 7 ; 26) GR	A	232.277 14	1.0	6138
* 9510	Q (1, 5 ; 34) GR	←	(0, 4 ; 34) GR	E	232.335 90	−1.6	1089
* 9511	R (2, 0 ; 6) GR	←	(1, −1 ; 5) GR	E	232.342 25	−2.3	2693
* 9512	Q (1, −7 ; 13) GR	←	(0, −6 ; 13) GR	E	232.343 55	−0.7	7227
* 9513	Q (1, −7 ; 12) GR	←	(0, −6 ; 12) GR	E	232.411 94	0.6	7326
* 9514	R (1, 1 −; 4) GR	←	(0, 0 +; 3) GR	A	232.414 41	0.4	6138
* 9515	P (1, 10 ; 22) GR	←	(0, 9 ; 23) GR	A	232.465 26	−1.8	1584
* 9516	Q (1, −7 ; 11) GR	←	(0, −6 ; 11) GR	E	232.472 89	−0.6	7128
* 9517	P (2, 3 ; 10) GR	←	(1, 2 −; 11) GR	A	232.514 70	−0.9	891
* 9518	P (2, 3 ; 10) GR	←	(1, 2 +; 11) GR	A	232.518 87	1.4	891
* 9519	Q (1, −7 ; 10) GR	←	(0, −6 ; 10) GR	E	232.527 21	0.0	6633
* 9520	Q (1, −7 ; 9) GR	←	(0, −6 ; 9) GR	E	232.575 32	0.3	6138
* 9521	R (2, −3 ; 29) GR	←	(2, −2 ; 28) GR	E	232.581 71	0.2	3861
* 9522	R (1, 2 −; 21) GR	←	(0, 1 +; 20) GR	A	232.586 55	0.0	6336
* 9523	Q (1, −7 ; 8) GR	←	(0, −6 ; 8) GR	E	232.617 43	1.1	5445
* 9524	Q (1, −7 ; 7) GR	←	(0, −6 ; 7) GR	E	232.653 95	0.1	4257
* 9525	R (1, 3 ; 6) GR	←	(0, 4 ; 5) GR	E	232.678 71	0.1	1386

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
* 9526	P (1, −1 ; 21) GR	←	(0, −2 ; 22) GR	E	232.710 19	−0.8	4356
* 9527	P (1, 2 ; 18) GR	←	(0, 1 ; 19) GR	E	232.748 44	0.1	4554
* 9528	R (3, 0 ; 24) GR	←	(2, 1 ; 23) GR	E	232.765 72	1.2	3861
* 9529	R (2, 6 ; 31) GR	←	(1, 5 ; 30) GR	E	232.823 64	1.7	1188
* 9530	R (1, −2 ; 15) GR	←	(0, −3 ; 14) GR	E	232.837 83	1.2	5247
* 9531	R (1, 7 ; 12) GR	←	(0, 8 ; 11) GR	A	232.976 14	1.4	2376
* 9532	P (1, −6 ; 14) GR	←	(0, −5 ; 15) GR	E	232.976 14	−0.5	2376
* 9533	R (1, 0 ; 18) GR	←	(0, −1 ; 17) GR	E	233.027 08	1.1	3465
* 9534	R (1, 2 +; 26) GR	←	(0, 1 −; 25) GR	A	233.122 80	−0.7	4059
* 9535	P (3, −1 ; 2) GR	←	(3, 0 ; 3) GR	A	233.126 62	0.7	1386
* 9536	R (2, −6 ; 6) GR	←	(1, −5 ; 5) GR	E	233.132 59	0.5	7227
* 9537	R (1, 1 +; 22) GR	←	(0, 2 −; 21) GR	A	233.137 73	0.6	4851
* 9538	R (1, 0 ; 26) GR	←	(0, 1 ; 25) GR	E	233.229 28	0.8	5346
* 9539	P (4, −1 ; 4) GR	←	(3, −2 ; 5) GR	E	233.231 73	1.7	3762
9540	R (1, 1 ; 31) GR	←	(0, 2 ; 30) GR	E	233.231 73	−5.4	3762
* 9541	P (2, 5 ; 22) GR	←	(1, 4 ; 23) GR	A	233.273 69	1.4	1584
* 9542	P (1, 3 ; 9) GR	←	(0, 2 +; 10) GR	A	233.297 23	0.4	5247
* 9543	R (1, 1 −; 22) GR	←	(0, 2 +; 21) GR	A	233.311 61	0.1	6237
* 9544	P (1, 3 ; 9) GR	←	(0, 2 −; 10) GR	A	233.331 07	0.4	5049
* 9545	R (3, 1 +; 23) GR	←	(2, 2 ; 22) GR	A	233.345 28	1.8	3564
* 9546	R (3, 1 −; 23) GR	←	(2, 2 ; 22) GR	A	233.349 48	−1.7	3663
* 9547	R (1, 3 ; 9) GR	←	(0, 4 ; 8) GR	A	233.353 21	1.2	3069
* 9548	P (1, 9 ; 26) GR	←	(0, 8 ; 27) GR	E	233.422 93	−1.3	693
* 9549	P (1, 9 ; 11) GR	←	(0, 8 ; 12) GR	A	233.438 97	0.5	891
* 9550	R (1, −3 ; 18) GR	←	(0, −2 ; 17) GR	E	233.548 32	−0.4	6534
* 9551	R (1, 4 ; 9) GR	←	(0, 3 ; 8) GR	E	233.581 15	−1.0	8118
* 9552	R (2, 4 ; 32) GR	←	(2, 3 ; 31) GR	E	233.592 37	1.0	2673
* 9553	P (1, 2 ; 6) GR	←	(0, 3 ; 7) GR	E	233.602 49	−2.5	6039
* 9554	R (2, 5 ; 36) GR	←	(2, 4 ; 35) GR	A	233.623 97	0.0	2475
* 9555	R (3, 1 ; 26) GR	←	(2, 0 ; 25) GR	E	233.632 78	−0.1	3960
* 9556	R (1, −4 ; 25) GR	←	(0, −5 ; 24) GR	E	233.706 26	−1.3	2277
* 9557	P (1, −5 ; 8) GR	←	(0, −6 ; 9) GR	E	233.760 01	−1.3	7128
* 9558	P (1, −2 ; 9) GR	←	(0, −1 ; 10) GR	E	233.772 58	−0.1	3861
* 9559	R (2, 8 ; 28) GR	←	(1, 7 ; 27) GR	A	233.775 14	0.4	5940
* 9560	Q (1, 5 ; 30) GR	←	(0, 4 +; 30) GR	A	233.839 43	−1.8	5445
* 9561	Q (1, 5 ; 30) GR	←	(0, 4 −; 30) GR	A	233.886 43	−0.2	2475
* 9562	R (2, 0 ; 7) GR	←	(1, −1 ; 6) GR	E	233.895 80	0.7	3168
* 9563	R (1, 1 −; 5) GR	←	(0, 0 +; 4) GR	A	233.976 29	−0.4	6237
* 9564	R (1, 1 ; 25) GR	←	(0, 0 ; 24) GR	E	233.983 41	−1.4	2772
* 9565	Q (1, 5 ; 29) GR	←	(0, 4 +; 29) GR	A	234.079 79	1.7	2574
* 9566	R (2, −3 ; 30) GR	←	(2, −2 ; 29) GR	E	234.090 65	−3.2	5940
* 9567	P (2, 3 ; 9) GR	←	(1, 2 −; 10) GR	A	234.099 66	0.0	3465
* 9568	P (2, 3 ; 9) GR	←	(1, 2 +; 10) GR	A	234.102 38	0.4	1089
9569	P (1, 10 ; 21) GR	←	(0, 9 ; 22) GR	A	234.114 58	−2.9	6633
9570	Q (1, 5 ; 29) GR	←	(0, 4 −; 29) GR	A	234.114 58	−12.7	6633
* 9571	R (1, 3 ; 7) GR	←	(0, 4 ; 6) GR	E	234.219 90	−0.9	2107
* 9572	R (3, 0 ; 25) GR	←	(2, 1 ; 24) GR	E	234.283 90	−0.4	3564
* 9573	Q (1, 6 ; 32) GR	←	(0, 7 ; 32) GR	E	234.302 42	−0.1	1563
* 9574	Q (1, 5 ; 28) GR	←	(0, 4 +; 28) GR	A	234.304 08	−1.7	3168
* 9575	R (1, 2 +; 27) GR	←	(0, 1 −; 26) GR	A	234.315 04	0.1	3564
* 9576	R (1, −2 ; 16) GR	←	(0, −3 ; 15) GR	E	234.323 38	0.2	5148
* 9577	Q (1, 5 ; 28) GR	←	(0, 4 −; 28) GR	A	234.331 85	−1.0	3069
* 9578	R (1, 2 −; 22) GR	←	(0, 1 +; 21) GR	A	234.367 97	0.8	5940
* 9579	P (1, 2 ; 17) GR	←	(0, 1 ; 18) GR	E	234.400 50	−0.5	4356
* 9580	R (1, 7 ; 13) GR	←	(0, 8 ; 12) GR	A	234.498 57	2.8	990
* 9581	Q (1, 5 ; 27) GR	←	(0, 4 +; 27) GR	A	234.514 21	0.6	3366
* 9582	Q (1, 5 ; 27) GR	←	(0, 4 −; 27) GR	A	234.534 96	−0.5	3663
* 9583	P (1, −1 ; 20) GR	←	(0, −2 ; 21) GR	E	234.542 40	0.0	4554
* 9584	Q (1, 6 ; 31) GR	←	(0, 7 ; 31) GR	E	234.577 29	2.4	1683
* 9585	R (1, 0 ; 19) GR	←	(0, −1 ; 18) GR	E	234.600 39	−1.8	3392
* 9586	R (1, 1 +; 23) GR	←	(0, 2 −; 22) GR	A	234.601 41	−1.6	5247
* 9587	P (1, −6 ; 13) GR	←	(0, −5 ; 14) GR	E	234.614 53	−0.2	2079
* 9588	R (1, 0 ; 27) GR	←	(0, 1 ; 26) GR	E	234.623 42	−0.3	5346
* 9589	P (1, 3 ; 23) GR	←	(0, 2 ; 24) GR	E	234.640 26	−1.9	1089
* 9590	R (2, −6 ; 7) GR	←	(1, −5 ; 6) GR	E	234.685 61	0.3	7029
* 9591	P (3, −1 ; 1) GR	←	(3, 0 ; 2) GR	E	234.697 18	3.1	1980
* 9592	R (1, 1 ; 32) GR	←	(0, 2 ; 31) GR	E	234.697 18	−1.5	1980
9593	Q (1, 5 ; 26) GR	←	(0, 4 +; 26) GR	A	234.709 71	−5.3	4554
* 9594	Q (1, 5 ; 26) GR	←	(0, 4 −; 26) GR	A	234.725 83	−0.1	3762
* 9595	R (1, 1 −; 23) GR	←	(0, 2 +; 22) GR	A	234.729 49	0.0	5445
* 9596	P (4, −1 ; 3) GR	←	(3, −2 ; 4) GR	E	234.803 73	0.8	2673
9597	Q (1, 6 ; 30) GR	←	(0, 7 ; 30) GR	E	234.839 70	4.5	2475
* 9598	R (3, 1 +; 24) GR	←	(2, 2 ; 23) GR	A	234.864 30	2.4	3168
* 9599	P (1, 0 +; 27) GR	←	(0, 1 −; 28) GR	A	234.864 30	−0.7	3168
9600	R (3, 1 −; 24) GR	←	(2, 2 ; 23) GR	A	234.868 71	−6.7	3267

cm 1 2 3 4 5 6 7 8 unesp 12 13 14 15 16 17 18 19

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 9601	R (1, 3 ; 10) GR	←	(0, 4 ; 9) GR	A	234.886 44	0.6	3861
* 9602	Q (1, 5 ; 25) GR	←	(0, 4 + ; 25) GR	A	234.893 23	1.1	4257
* 9603	Q (1, 5 ; 25) GR	←	(0, 4 − ; 25) GR	A	234.904 76	0.3	4059
* 9604	P (1, 3 ; 8) GR	←	(0, 2 + ; 9) GR	A	234.913 65	0.2	4950
* 9605	R (1, −3 ; 19) GR	←	(0, −2 ; 18) GR	E	234.919 16	0.3	6138
* 9606	P (1, 3 ; 8) GR	←	(0, 2 − ; 9) GR	A	234.936 20	−0.1	4752
* 9607	P (2, 5 ; 21) GR	←	(1, 4 ; 22) GR	A	235.008 61	0.0	1980
* 9608	P (1, 9 ; 10) GR	←	(0, 8 ; 11) GR	A	235.046 36	−1.3	891
* 9609	Q (1, 5 ; 24) GR	←	(0, 4 + ; 24) GR	A	235.063 70	−0.2	4554
* 9610	Q (1, 5 ; 24) GR	←	(0, 4 − ; 24) GR	A	235.072 14	−0.1	4455
* 9611	P (1, 9 ; 25) GR	←	(0, 8 ; 26) GR	E	235.077 17	−0.7	693
* 9612	Q (1, 6 ; 29) GR	←	(0, 7 ; 29) GR	E	235.088 52	0.0	2178
* 9613	R (1, 4 ; 10) GR	←	(0, 3 ; 9) GR	E	235.105 65	0.6	7524
* 9614	R (2, 4 ; 33) GR	←	(2, 3 ; 32) GR	E	235.105 65	0.5	7524
* 9615	R (2, 5 ; 37) GR	←	(2, 4 ; 36) GR	A	235.134 12	0.0	1980
* 9616	R (3, 1 ; 27) GR	←	(2, 0 ; 26) GR	E	235.146 29	−1.0	7920
* 9617	P (1, 2 ; 5) GR	←	(0, 3 ; 6) GR	E	235.201 98	−0.6	5049
* 9618	R (1, −4 ; 26) GR	←	(0, −5 ; 25) GR	E	235.212 05	−0.2	2475
* 9619	Q (1, 5 ; 23) GR	←	(0, 4 + ; 23) GR	A	235.222 45	−0.6	4752
* 9620	Q (1, 5 ; 23) GR	←	(0, 4 − ; 23) GR	A	235.228 46	−0.5	4653
* 9621	Q (3, 2 ; 31) GR	←	(3, 1 ; 31) GR	E	235.267 08	1.0	1782
* 9622	R (2, 8 ; 29) GR	←	(1, 7 ; 28) GR	A	235.269 45	0.6	5346
9623	Q (3, 2 ; 30) GR	←	(3, 1 ; 30) GR	E	235.324 74	9.8	2871
* 9624	Q (1, 6 ; 28) GR	←	(0, 7 ; 28) GR	E	235.324 74	−3.1	2871
* 9625	P (1, −5 ; 7) GR	←	(0, −6 ; 8) GR	E	235.361 25	0.2	6336
* 9626	P (1, −2 ; 8) GR	←	(0, −1 ; 9) GR	E	235.368 13	−1.7	3663
* 9627	Q (1, 5 ; 22) GR	←	(0, 4 + ; 22) GR	A	235.370 08	0.2	5346
* 9628	Q (1, 5 ; 22) GR	←	(0, 4 − ; 22) GR	A	235.374 28	0.2	5643
* 9629	Q (3, 2 ; 29) GR	←	(3, 1 ; 29) GR	E	235.378 81	−0.7	2178
* 9630	Q (3, 2 ; 28) GR	←	(3, 1 ; 28) GR	E	235.431 83	0.2	2178
* 9631	R (2, 0 ; 8) GR	←	(1, −1 ; 7) GR	E	235.446 30	−0.6	3267
* 9632	Q (3, 2 ; 27) GR	←	(3, 1 ; 27) GR	E	235.482 87	−0.4	2475
* 9633	Q (1, 5 ; 21) GR	←	(0, 4 + ; 21) GR	A	235.506 91	−0.6	5841
* 9634	Q (1, 5 ; 21) GR	←	(0, 4 − ; 21) GR	A	235.509 90	−0.1	5445
* 9635	Q (3, 2 ; 26) GR	←	(3, 1 ; 26) GR	E	235.531 92	0.7	2970
* 9636	R (1, 1 − ; 6) GR	←	(0, 0 + ; 5) GR	A	235.536 02	0.7	6534
* 9637	Q (1, 6 ; 27) GR	←	(0, 7 ; 27) GR	E	235.548 87	−1.1	2871
* 9638	R (2, −3 ; 31) GR	←	(2, −2 ; 30) GR	E	235.578 84	−0.7	4059
9639	Q (3, 2 ; 25) GR	←	(3, 1 ; 25) GR	E	235.578 84	−3.3	4059
* 9640	Q (3, 2 ; 24) GR	←	(3, 1 ; 24) GR	E	235.624 55	−1.2	3366
* 9641	Q (1, 5 ; 20) GR	←	(0, 4 + ; 20) GR	A	235.633 75	−0.6	5940
* 9642	Q (1, 5 ; 20) GR	←	(0, 4 − ; 20) GR	A	235.635 84	1.0	5445
* 9643	Q (3, 2 ; 23) GR	←	(3, 1 ; 23) GR	E	235.668 05	1.0	3762
9644	P (2, 3 ; 8) GR	←	(1, 2 − ; 9) GR	A	235.682 95	−5.1	990
* 9645	P (2, 3 ; 8) GR	←	(1, 2 + ; 9) GR	A	235.685 30	0.4	1188
* 9646	Q (3, 2 ; 22) GR	←	(3, 1 ; 22) GR	E	235.709 38	−1.5	4158
9647	Q (3, 2 ; 21) GR	←	(3, 1 ; 21) GR	E	235.750 08	8.0	6633
9648	Q (1, 5 ; 19) GR	←	(0, 4 + ; 19) GR	A	235.750 08	−7.3	6633
* 9649	Q (1, 5 ; 19) GR	←	(0, 4 − ; 19) GR	A	235.751 51	−1.1	6633
* 9650	R (1, 3 ; 8) GR	←	(0, 4 ; 7) GR	E	235.754 68	−1.0	2673
* 9651	Q (1, 6 ; 26) GR	←	(0, 7 ; 26) GR	E	235.760 07	0.7	3465
* 9652	P (1, 10 ; 20) GR	←	(0, 9 ; 21) GR	A	235.762 40	−0.1	1881
* 9653	R (1, 1 ; 26) GR	←	(0, 0 ; 25) GR	E	235.776 93	0.4	2871
* 9654	Q (3, 2 ; 20) GR	←	(3, 1 ; 20) GR	E	235.787 10	−0.1	4752
* 9655	R (3, 0 ; 26) GR	←	(2, 1 ; 25) GR	E	235.800 38	3.2	5346
* 9656	R (1, −2 ; 17) GR	←	(0, −3 ; 16) GR	E	235.800 38	−2.4	5346
* 9657	Q (3, 2 ; 19) GR	←	(3, 1 ; 19) GR	E	235.823 03	−0.7	5346
* 9658	Q (1, 5 ; 18) GR	←	(0, 4 ; 18) GR	A	235.853 77	1.2	7227
* 9659	Q (3, 2 ; 18) GR	←	(3, 1 ; 18) GR	E	235.857 17	0.6	5148
* 9660	Q (3, 2 ; 17) GR	←	(3, 1 ; 17) GR	E	235.889 50	0.1	5346
* 9661	Q (3, 2 ; 16) GR	←	(3, 1 ; 16) GR	E	235.919 97	0.4	5148
* 9662	Q (3, 2 ; 15) GR	←	(3, 1 ; 15) GR	E	235.948 60	−0.3	5841
* 9663	Q (1, 6 ; 25) GR	←	(0, 7 ; 25) GR	E	235.958 64	0.7	3366
* 9664	Q (1, 5 ; 17) GR	←	(0, 4 ; 17) GR	A	235.965 68	−0.4	8217
* 9665	Q (3, 2 ; 14) GR	←	(3, 1 ; 14) GR	E	235.975 41	−0.3	5643
* 9666	Q (3, 2 ; 13) GR	←	(3, 1 ; 13) GR	E	236.000 41	−0.1	6237
* 9667	R (1, 0 ; 28) GR	←	(0, 1 ; 27) GR	E	236.011 74	0.4	4356
* 9668	R (1, 7 ; 14) GR	←	(0, 8 ; 13) GR	A	236.016 30	−0.4	1287
* 9669	Q (3, 2 ; 12) GR	←	(3, 1 ; 12) GR	E	236.023 66	0.0	5940
* 9670	Q (3, 2 ; 11) GR	←	(3, 1 ; 11) GR	E	236.045 01	−0.1	5940
* 9671	P (1, 2 ; 16) GR	←	(0, 1 ; 17) GR	E	236.049 00	0.4	4851
* 9672	Q (1, 5 ; 16) GR	←	(0, 4 ; 16) GR	A	236.056 13	−0.3	8019
9673	R (1, 1 + ; 24) GR	←	(0, 2 − ; 23) GR	A	236.064 31	7.2	7128
* 9674	Q (3, 2 ; 10) GR	←	(3, 1 ; 10) GR	E	236.064 31	−2.0	7128
* 9675	Q (3, 2 ; 9) GR	←	(3, 1 ; 9) GR	E	236.082 39	0.3	5841

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 9676	Q (3, 2 ; 8) GR	←	(3, 1 ; 8) GR	E	236.098 41	−0.5	6039
* 9677	Q (3, 2 ; 7) GR	←	(3, 1 ; 7) GR	E	236.112 62	−0.1	5742
* 9678	Q (3, 2 ; 6) GR	←	(3, 1 ; 6) GR	E	236.125 05	−0.6	5445
* 9679	R (1, 1 − ; 24) GR	←	(0, 2 + ; 23) GR	A	236.132 98	0.6	5544
* 9680	Q (3, 2 ; 5) GR	←	(3, 1 ; 5) GR	E	236.135 80	−0.1	6534
* 9681	Q (1, 5 ; 15) GR	←	(0, 4 ; 15) GR	A	236.140 34	0.8	8118
* 9682	Q (1, 6 ; 24) GR	←	(0, 7 ; 24) GR	E	236.144 57	0.6	6039
* 9683	Q (3, 2 ; 4) GR	←	(3, 1 ; 4) GR	E	236.144 57	0.0	6039
* 9684	Q (3, 2 ; 3) GR	←	(3, 1 ; 3) GR	E	236.151 65	−2.2	3960
* 9685	Q (3, 2 ; 2) GR	←	(3, 1 ; 2) GR	E	236.156 95	0.0	2871
* 9686	R (1, 2 − ; 23) GR	←	(0, 1 + ; 22) GR	A	236.161 36	−0.4	5643
* 9687	R (1, 1 ; 33) GR	←	(0, 2 ; 32) GR	E	236.165 35	0.8	1386
* 9688	R (1, 0 ; 20) GR	←	(0, −1 ; 19) GR	E	236.182 81	0.0	2970
* 9689	Q (1, 5 ; 14) GR	←	(0, 4 ; 14) GR	A	236.217 63	0.2	8019
* 9690	R (2, −6 ; 8) GR	←	(1, −5 ; 7) GR	E	236.235 52	0.9	7029
* 9691	P (1, −6 ; 12) GR	←	(0, −5 ; 13) GR	E	236.247 63	−0.5	2178
* 9692	R (1, −3 ; 20) GR	←	(0, −2 ; 19) GR	E	236.263 24	0.4	6237
* 9693	Q (1, 5 ; 13) GR	←	(0, 4 ; 13) GR	A	236.288 33	0.3	8118
* 9694	Q (1, 6 ; 23) GR	←	(0, 7 ; 23) GR	E	236.318 05	0.9	3663
* 9695	P (1, −1 ; 19) GR	←	(0, −2 ; 20) GR	E	236.349 12	0.9	4653
* 9696	Q (1, 5 ; 12) GR	←	(0, 4 ; 12) GR	A	236.352 49	−0.1	7722
* 9697	P (4, −1 ; 2) GR	←	(3, −2 ; 3) GR	E	236.374 45	0.6	2376
* 9698	R (3, 1 + ; 25) GR	←	(2, 2 ; 24) GR	A	236.380 56	0.1	2772
* 9699	R (3, 1 − ; 25) GR	←	(2, 2 ; 24) GR	A	236.385 13	−1.2	3465
* 9700	Q (1, 5 ; 11) GR	←	(0, 4 ; 11) GR	A	236.410 61	−0.3	8118
* 9701	R (1, 3 ; 11) GR	←	(0, 4 ; 10) GR	A	236.415 18	0.3	3762
* 9702	P (1, 3 ; 22) GR	←	(0, 2 ; 23) GR	E	236.431 43	−0.1	1089
* 9703	Q (1, 5 ; 10) GR	←	(0, 4 ; 10) GR	A	236.462 84	0.0	7821
* 9704	Q (1, 6 ; 22) GR	←	(0, 7 ; 22) GR	E	236.479 18	−0.1	4059
* 9705	Q (1, 5 ; 9) GR	←	(0, 4 ; 9) GR	A	236.509 50	−0.2	7821
* 9706	P (1, 3 ; 7) GR	←	(0, 2 + ; 8) GR	A	236.525 01	−0.1	4554
* 9707	P (1, 3 ; 7) GR	←	(0, 2 − ; 8) GR	A	236.539 37	−0.3	4356
* 9708	Q (1, 5 ; 8) GR	←	(0, 4 ; 8) GR	A	236.550 86	0.3	7227
* 9709	Q (1, 5 ; 7) GR	←	(0, 4 ; 7) GR	A	236.587 02	−0.5	7029
* 9710	Q (1, 5 ; 6) GR	←	(0, 4 ; 6) GR	A	236.618 27	−0.8	6633
* 9711	R (1, 4 ; 11) GR	←	(0, 3 ; 10) GR	E	236.623 14	0.3	7623
* 9712	Q (1, 6 ; 21) GR	←	(0, 7 ; 21) GR	E	236.628 07	−0.2	4554
* 9713	Q (1, 5 ; 5) GR	←	(0, 4 ; 5) GR	A	236.644 74	0.2	5148
* 9714	R (3, 1 ; 28) GR	←	(2, 0 ; 27) GR	E	236.657 45	0.2	3069
* 9715	R (1, −4 ; 27) GR	←	(0, −5 ; 26) GR	E	236.717 55	−0.7	1584
* 9716	P (2, 5 ; 20) GR	←	(1, 4 ; 21) GR	A	236.729 34	0.1	2178
* 9717	P (1, 9 ; 24) GR	←	(0, 8 ; 25) GR	E	236.731 05	1.0	1084
* 9718	P (1, 0 + ; 26) GR	←	(0, 1 − ; 27) GR	A	236.731 02	−0.6	0
* 9719	R (2, 8 ; 30) GR	←	(1, 7 ; 29) GR	A	236.759 86	0.5	5445
* 9720	Q (1, 6 ; 20) GR	←	(0, 7 ; 20) GR	E	236.765 09	−0.7	4257
9721	P (1, 2 ; 4) GR	←	(0, 3 ; 5) GR	E	236.797 52	6.0	6237
* 9722	Q (3, −1 ; 31) GR	←	(3, 0 ; 31) GR	E	236.886 76	0.0	1485
* 9723	Q (1, 6 ; 19) GR	←	(0, 7 ; 19) GR	E	236.890 70	0.4	4554
* 9724	Q (1, −4 ; 37) GR	←	(0, −3 ; 37) GR	E	236.915 07	0.4	891
* 9725	Q (1, −4 ; 36) GR	←	(0, −3 ; 36) GR	E	236.931 39	1.1	891
* 9726	Q (3, −1 ; 30) GR	←	(3, 0 ; 30) GR	E	236.947 44	−1.2	1213
* 9727	Q (1, −4 ; 35) GR	←	(0, −3 ; 35) GR	E	236.950 24	0.4	1386
* 9728	P (1, −5 ; 6) GR	←	(0, −6 ; 7) GR	E	236.959 71	1.1	6237
* 9729	P (1, −2 ; 7) GR	←	(0, −1 ; 8) GR	E	236.963 99	0.3	3366
* 9730	Q (1, −4 ; 34) GR	←	(0, −3 ; 34) GR	E	236.972 00	0.3	1683
* 9731	R (2, 0 ; 9) GR	←	(1, −1 ; 8) GR	E	236.994 34	0.7	3861
* 9732	Q (1, −4 ; 33) GR	←	(0, −3 ; 33) GR	E	236.997 08	1.3	2178
* 9733	Q (1, 6 ; 18) GR	←	(0, 7 ; 18) GR	E	237.005 01	−0.3	4554
9734	Q (3, −1 ; 29) GR	←	(3, 0 ; 29) GR	E	237.005 01	−4.6	4554
* 9735	Q (1, −4 ; 32) GR	←	(0, −3 ; 32) GR	E	237.026 16	−0.5	2376
* 9736	Q (1, −4 ; 31) GR	←	(0, −3 ; 31) GR	E	237.058 92	0.2	2871
* 9737	Q (3, −1 ; 28) GR	←	(3, 0 ; 28) GR	E	237.062 57	0.7	1881
* 9738	R (1, 1 − ; 7) GR	←	(0, 0 + ; 6) GR	A	237.093 66	0.4	6930
* 9739	Q (1, −4 ; 30) GR	←	(0, −3 ; 30) GR	E	237.095 50	1.5	4653
* 9740	Q (1, 6 ; 17) GR	←	(0, 7 ; 17) GR	E	237.108 50	−0.5	4455
* 9741	Q (3, −1 ; 27) GR	←	(3, 0 ; 27) GR	E	237.116 59	−0.9	2178
* 9742	Q (1, −4 ; 29) GR	←	(0, −3 ; 29) GR	E	237.135 33	−0.1	3762
* 9743	Q (3, −1 ; 26) GR	←	(3, 0 ; 26) GR	E	237.168 60	2.8	2574
* 9744	Q (1, −4 ; 28) GR	←	(0, −3 ; 28) GR	E	237.178 76	−0.4	3960
* 9745	Q (1, 6 ; 16) GR	←	(0, 7 ; 16) GR	E	237.201 93	−0.5	4554
* 9746	Q (3, −1 ; 25) GR	←	(3, 0 ; 25) GR	E	237.218 62	0.5	2574
* 9747	Q (1, −4 ; 27) GR	←	(0, −3 ; 27) GR	E	237.225 33	−0.8	4851
* 9748	P (2, 3 ; 7) GR	←	(1, 2 ; 8) GR	A	237.266 54	0.3	4752
* 9749	Q (3, −1 ; 24) GR	←	(3, 0 ; 24) GR	E	237.266 54	0.0	4752
* 9750	R (1, −2 ; 18) GR	←	(0, −3 ; 17) GR	E	237.269 24	0.1	5346



Index	upper state T (n, K ; J)	v	←	lower state (n, K ; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 9751	Q (1, −4 ; 26)	GR	← (0, −3 ; 26)	GR	E	237.274 75	−0.4	5049
* 9752	R (1, 3 ; 9)	GR	← (0, 4 ; 8)	GR	E	237.282 38	0.7	2673
* 9753	Q (1, 6 ; 15)	GR	← (0, 7 ; 15)	GR	E	237.285 65	−0.3	3960
* 9754	Q (3, −1 ; 23)	GR	← (3, 0 ; 23)	GR	E	237.312 27	−1.1	4851
* 9755	R (3, 0 ; 27)	GR	← (2, 1 ; 26)	GR	E	237.312 27	−1.7	4851
* 9756	Q (1, −4 ; 25)	GR	← (0, −3 ; 25)	GR	E	237.326 63	0.0	5247
* 9757	Q (3, −1 ; 22)	GR	← (3, 0 ; 22)	GR	E	237.356 07	−0.6	3861
* 9758	Q (1, 6 ; 14)	GR	← (0, 7 ; 14)	GR	E	237.360 52	0.2	4356
* 9759	Q (1, −4 ; 24)	GR	← (0, −3 ; 24)	GR	E	237.380 72	−0.5	5940
* 9760	R (1, 0 ; 29)	GR	← (0, 1 ; 28)	GR	E	237.394 91	1.1	3663
* 9761	Q (3, −1 ; 21)	GR	← (3, 0 ; 21)	GR	E	237.397 88	0.0	4059
* 9762	P (1, 10 ; 19)	GR	← (0, 9 ; 20)	GR	A	237.407 87	−0.1	2079
* 9763	Q (1, 6 ; 13)	GR	← (0, 7 ; 13)	GR	E	237.426 86	−1.4	4257
* 9764	Q (1, −4 ; 23)	GR	← (0, −3 ; 23)	GR	E	237.436 84	2.5	6732
* 9765	Q (3, −1 ; 20)	GR	← (3, 0 ; 20)	GR	E	237.437 86	0.0	1774
* 9766	Q (3, −1 ; 19)	GR	← (3, 0 ; 19)	GR	E	237.475 64	−1.2	4356
* 9767	Q (1, 6 ; 12)	GR	← (0, 7 ; 12)	GR	E	237.485 62	0.3	4554
* 9768	Q (1, −4 ; 22)	GR	← (0, −3 ; 22)	GR	E	237.493 64	0.0	6633
* 9769	Q (3, −1 ; 18)	GR	← (3, 0 ; 18)	GR	E	237.511 49	−1.5	4752
* 9770	R (1, 1 $^-$; 25)	GR	← (0, 2 $^+$; 24)	GR	A	237.521 44	0.6	5247
* 9771	R (1, 1 $^+$; 25)	GR	← (0, 2 $^-$; 24)	GR	A	237.523 88	0.7	4455
* 9772	R (1, 7 ; 15)	GR	← (0, 8 ; 14)	GR	A	237.529 96	−2.6	1287
* 9773	Q (1, 6 ; 11)	GR	← (0, 7 ; 11)	GR	E	237.537 16	0.5	3762
* 9774	Q (3, −1 ; 17)	GR	← (3, 0 ; 17)	GR	E	237.545 16	−1.0	5940
* 9775	Q (1, −4 ; 21)	GR	← (0, −3 ; 21)	GR	E	237.551 71	−0.6	6930
* 9776	Q (3, −1 ; 16)	GR	← (3, 0 ; 16)	GR	E	237.578 08	2.3	7029
9777	R (1, −3 ; 21)	GR	← (0, −2 ; 20)	GR	E	237.578 08	−5.3	7029
* 9778	Q (1, 6 ; 10)	GR	← (0, 7 ; 10)	GR	E	237.582 22	0.7	3267
* 9779	R (1, 1 ; 27)	GR	← (0, 0 ; 26)	GR	E	237.587 00	−2.5	2871
* 9780	Q (3, −1 ; 15)	GR	← (3, 0 ; 15)	GR	E	237.607 62	0.7	5544
* 9781	Q (1, −4 ; 20)	GR	← (0, −3 ; 20)	GR	E	237.610 32	−0.5	7227
* 9782	Q (1, 6 ; 9)	GR	← (0, 7 ; 9)	GR	E	237.621 42	0.9	4059
* 9783	R (1, 1 ; 34)	GR	← (0, 2 ; 33)	GR	E	237.635 36	2.1	7128
* 9784	Q (3, −1 ; 14)	GR	← (3, 0 ; 14)	GR	E	237.635 36	−2.0	7128
* 9785	Q (1, 6 ; 8)	GR	← (0, 7 ; 8)	GR	E	237.655 13	0.9	2277
* 9786	Q (3, −1 ; 13)	GR	← (3, 0 ; 13)	GR	E	237.661 80	−0.9	5445
* 9787	Q (1, −4 ; 19)	GR	← (0, −3 ; 19)	GR	E	237.669 09	−0.7	7128
* 9788	Q (1, 6 ; 7)	GR	← (0, 7 ; 7)	GR	E	237.683 81	0.2	1485
* 9789	Q (3, −1 ; 12)	GR	← (3, 0 ; 12)	GR	E	237.686 43	0.9	6039
* 9790	P (1, 2 ; 15)	GR	← (0, 1 ; 16)	GR	E	237.693 49	0.4	4950
* 9791	Q (3, −1 ; 11)	GR	← (3, 0 ; 11)	GR	E	237.708 70	0.2	5445
* 9792	Q (1, −4 ; 18)	GR	← (0, −3 ; 18)	GR	E	237.727 70	−0.1	7326
* 9793	Q (3, −1 ; 10)	GR	← (3, 0 ; 10)	GR	E	237.729 00	−0.9	5621
* 9794	Q (3, −1 ; 9)	GR	← (3, 0 ; 9)	GR	E	237.747 87	−0.1	5247
* 9795	Q (3, −1 ; 8)	GR	← (3, 0 ; 8)	GR	E	237.764 70	0.1	5346
* 9796	R (1, 0 ; 21)	GR	← (0, −1 ; 20)	GR	E	237.774 85	2.0	3762
* 9797	Q (3, −1 ; 7)	GR	← (3, 0 ; 7)	GR	E	237.779 55	0.0	5742
* 9798	R (2, −6 ; 9)	GR	← (1, −5 ; 8)	GR	E	237.782 14	0.3	7227
* 9799	Q (1, −4 ; 17)	GR	← (0, −3 ; 17)	GR	E	237.785 51	0.3	7227
* 9800	Q (3, −1 ; 6)	GR	← (3, 0 ; 6)	GR	E	237.792 54	0.2	4752
* 9801	Q (3, −1 ; 5)	GR	← (3, 0 ; 5)	GR	E	237.803 69	−0.2	4752
* 9802	Q (3, −1 ; 4)	GR	← (3, 0 ; 4)	GR	E	237.812 95	−0.1	3960
* 9803	Q (3, −1 ; 3)	GR	← (3, 0 ; 3)	GR	E	237.820 43	0.5	3762
* 9804	Q (3, −1 ; 2)	GR	← (3, 0 ; 2)	GR	E	237.825 97	−0.8	3267
* 9805	Q (3, −1 ; 1)	GR	← (3, 0 ; 1)	GR	E	237.829 77	−3.1	2079
* 9806	Q (1, −4 ; 16)	GR	← (0, −3 ; 16)	GR	E	237.842 35	−0.2	7722
* 9807	P (1, −6 ; 11)	GR	← (0, −5 ; 12)	GR	E	237.875 66	−0.1	1782
* 9808	R (3, 1 $^+$; 26)	GR	← (2, 2 ; 25)	GR	A	237.894 05	2.2	2772
* 9809	Q (1, −4 ; 15)	GR	← (0, −3 ; 15)	GR	E	237.897 86	0.6	7623
* 9810	R (1, 3 ; 12)	GR	← (0, 4 ; 11)	GR	A	237.939 39	−0.3	4356
* 9811	Q (1, −4 ; 14)	GR	← (0, −3 ; 14)	GR	E	237.951 49	0.5	7722
* 9812	R (1, 2 $^-$; 24)	GR	← (0, 1 $^+$; 23)	GR	A	237.966 67	−1.6	5643
* 9813	Q (1, 4 ; 19)	GR	← (0, 5 ; 19)	GR	A	238.002 99	2.5	9009
* 9814	Q (1, −4 ; 13)	GR	← (0, −3 ; 13)	GR	E	238.002 99	−1.7	9009
* 9815	Q (1, 4 ; 20)	GR	← (0, 5 ; 20)	GR	A	238.005 12	−0.2	5346
* 9816	Q (1, 4 ; 18)	GR	← (0, 5 ; 18)	GR	A	238.007 13	0.3	5643
* 9817	Q (1, 4 ; 21)	GR	← (0, 5 ; 21)	GR	A	238.015 05	−0.2	4851
* 9818	Q (1, 4 ; 17)	GR	← (0, 5 ; 17)	GR	A	238.017 47	0.3	6435
* 9819	Q (1, 4 ; 22)	GR	← (0, 5 ; 22)	GR	A	238.033 12	3.8	7623
* 9820	Q (1, 4 ; 16)	GR	← (0, 5 ; 16)	GR	A	238.033 12	−1.7	7623
9821	Q (1, −4 ; 12)	GR	← (0, −3 ; 12)	GR	E	238.052 82	4.2	8613
9822	Q (1, 4 ; 15)	GR	← (0, 5 ; 15)	GR	A	238.052 82	−8.2	8613
* 9823	Q (1, 4 ; 23)	GR	← (0, 5 ; 23)	GR	A	238.058 60	−1.0	2970
* 9824	Q (1, 4 ; 14)	GR	← (0, 5 ; 14)	GR	A	238.077 90	−0.3	6930
* 9825	Q (1, 4 ; 24)	GR	← (0, 5 ; 24)	GR	A	238.092 68	−3.4	5148

Index	upper state T (n, K ; J)	v	←	lower state (n, K ; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
* 9826	Q (1, −4 ; 11)	GR	← (0, −3 ; 11)	GR	E	238.099 10	−0.1	7920
* 9827	Q (1, 4 ; 13)	GR	← (0, 5 ; 13)	GR	A	238.105 20	1.6	7524
9828	P (1, −1 ; 18)	GR	← (0, −2 ; 19)	GR	E	238.131 12	3.8	6930
* 9829	P (1, 3 ; 6)	GR	← (0, 2 $^+$; 7)	GR	A	238.131 12	−3.8	6930
9830	R (1, 4 ; 12)	GR	← (0, 3 ; 11)	GR	E	238.133 84	4.1	9702
9831	Q (1, 4 ; 12)	GR	← (0, 5 ; 12)	GR	A	238.133 84	−3.8	9702
* 9832	Q (1, 4 ; 25)	GR	← (0, 5 ; 25)	GR	A	238.136 35	−1.6	2376
* 9833	P (1, 3 ; 6)	GR	← (0, 2 $^-$; 7)	GR	A	238.140 19	0.6	4554
* 9834	Q (1, −4 ; 10)	GR	← (0, −3 ; 10)	GR	E	238.142 75	−0.3	8316
* 9835	Q (1, 4 ; 11)	GR	← (0, 5 ; 11)	GR	A	238.164 93	1.0	7722
9836	R (3, 1 ; 29)	GR	← (2, 0 ; 28)	GR	E	238.164 93	−3.6	7722
* 9837	Q (1, −4 ; 9)	GR	← (0, −3 ; 9)	GR	E	238.183 34	0.3	7722
* 9838	Q (1, 4 ; 26)	GR	← (0, 5 ; 26)	GR	A	238.188 46	−0.3	1584
* 9839	Q (1, 4 ; 10)	GR	← (0, 5 ; 10)	GR	A	238.195 83	0.1	7326
* 9840	P (1, 3 ; 21)	GR	← (0, 2 ; 22)	GR	E	238.215 59	0.4	1584
* 9841	Q (1, −4 ; 8)	GR	← (0, −3 ; 8)	GR	E	238.220 48	−0.1	7623
* 9842	Q (1, 4 ; 9)	GR	← (0, 5 ; 9)	GR	A	238.226 53	−1.1	7227
* 9843	R (2, 8 ; 31)	GR	← (1, 7 ; 30)	GR	A	238.246 51	0.1	4752
* 9844	Q (1, 4 ; 27)	GR	← (0, 5 ; 27)	GR	A	238.249 45	−0.9	1287
* 9845	Q (1, −4 ; 7)	GR	← (0, −3 ; 7)	GR	E	238.253 88	−1.1	8811
* 9846	Q (1, 4 ; 8)	GR	← (0, 5 ; 8)	GR	A	238.256 36	−0.3	7425
9847	Q (1, −4 ; 6)	GR	← (0, −3 ; 6)	GR	E	238.284 09	4.2	8910
9848	Q (1, 4 ; 7)	GR	← (0, 5 ; 7)	GR	A	238.284 09	−4.3	8910
9849	Q (1, −4 ; 5)	GR	← (0, −3 ; 5)	GR	E	238.309 94	4.2	8316
9850	Q (1, 4 ; 6)	GR	← (0, 5 ; 6)	GR	A	238.309 94	−5.1	8316
* 9851	Q (1, 4 ; 28)	GR	← (0, 5 ; 28)	GR	A	238.319 45	−0.4	1089
* 9852	Q (1, −4 ; 4)	GR	← (0, −3 ; 4)	GR	E	238.331 22	−0.3	5544
* 9853	Q (1, 4 ; 5)	GR	← (0, 5 ; 5)	GR	A	238.333 65	0.1	5049
* 9854	P (1, 9 ; 23)	GR	← (0, 8 ; 24)	GR	E	238.383 36	−0.4	1584
* 9855	P (1, 2 ; 3)	GR	← (0, 3 ; 4)	GR	E	238.387 65	0.6	4554
* 9856	P (2, 5 ; 19)	GR	← (1, 4 ; 20)	GR	A	238.436 21	−0.4	2673
* 9857	P (1, −1 ; 26)	GR	← (0, 0 ; 27)	GR	E	238.473 90	−2.5	891
* 9858	R (2, 0 ; 10)	GR	← (1, −1 ; 9)	GR	E	238.539 17	1.0	3465
* 9859	P (1, −5 ; 5)	GR	← (0, −6 ; 6)	GR	E	238.554 92	−0.4	6633
* 9860	P (1, −2 ; 6)	GR	← (0, −1 ; 7)	GR	E	238.558 89	0.1	2772
* 9861	P (1, 0 $^+$; 25)	GR	← (0, 1 $^-$; 26)	GR	A	238.591 77	0.2	3663
* 9862	R (1, 1 $^-$; 8)	GR	← (0, 0 $^+$; 7)	GR	A	238.649 45	1.0	6831
* 9863	Q (3, 1 $^-$; 24)	GR	← (3, 0 $^+$; 24)	GR	A	238.707 63	0.4	2277
* 9864	R (1, −2 ; 19)	GR	← (0, −3 ; 18)	GR	E	238.728 73	0.3	4950
* 9865	Q (3, 1 $^-$; 23)	GR	← (3, 0 $^+$; 23)	GR	A	238.755 50	−0.1	2673
* 9866	R (1, 0 ; 30)	GR	← (0, 1 ; 29)	GR	E	238.773 92	0.5	3168
* 9867	R (1, 3 ; 10)	GR	← (0, 4 ; 9)	GR	E	238.801 53	−0.7	4455
* 9868	Q (3, 1 $^-$; 22)	GR	← (3, 0 $^+$; 22)	GR	A	238.801 53	−1.1	4455
* 9869	R (3, 0 ; 28)	GR	← (2, 1 ; 27)	GR	E	238.822 34	−0.4	2970
* 9870	Q (3, 1 $^-$; 21)	GR	← (3, 0 $^+$; 21)	GR	A	238.845 30	1.7	2871
* 9871	P (2, 3 ; 6)	GR	← (1, 2 ; 7)	GR	A	238.847 84	−0.1	1188
* 9872	R (1, −3 ; 22)	GR	← (0, −2 ; 21)	GR	E	238.863 75	−0.1	5346
* 9873	Q (3, 1 $^-$; 20)	GR	← (3, 0 $^+$; 20)	GR	A	238.887 33	−0.1	3168
* 9874	R (1, 1 $^-$; 26)	GR	← (0, 2 $^+$; 25)	GR	A	238.894 45	1.0	4950
9875	Q (2, −6 ; 17)	GR	← (1, −7 ; 17)	GR	E	238.894 45	−7.8	4950
* 9876	Q (2, −6 ; 18)	GR	← (1, −7 ; 18)	GR	E	238.897 08	1.8	1683
* 9877	Q (2, −6 ; 16)	GR	← (1, −7 ; 16)	GR	E	238.897 08	−1.3	1683
* 9878	Q (2, −6 ; 15)	GR	← (1, −7 ; 15)	GR	E	238.902 44	1.6	3168
* 9879	Q (2, −6 ; 19)	GR	← (1, −7 ; 19)	GR	E	238.902 44	−1.0	3168
* 9880	Q (2, −6 ; 14)	GR	← (1, −7 ; 14)	GR	E	238.909 58	−1.2	693
* 9881	Q (2, −6 ; 20)	GR	← (1, −7 ; 20)	GR	E	238.912 95	0.4	792
* 9882	Q (2, −6 ; 13)	GR	← (1, −7 ; 13)	GR	E	238.919 18	−0.1	891
* 9883	Q (3, 1 $^-$; 19)	GR	← (3, 0 $^+$; 19)	GR	A	238.927 42	−0.5	3762
* 9884	Q (2, −6 ; 22)	GR	← (1, −7 ; 22)	GR	E	238.950 30	−1.7	990
* 9885	Q (3, 1 $^-$; 18)	GR	← (3, 0 $^+$; 18)	GR	A	238.965 46	0.7	4158
* 9886	Q (2, −6 ; 23)	GR	← (1, −7 ; 23)	GR	E	238.978 80	0.3	1089
* 9887	R (1, 1 $^+$; 26)	GR	← (0, 2 $^-$; 25)	GR	A	238.982 74	−0.2	3564
* 9888	Q (3, 1 $^-$; 17)	GR	← (3, 0 $^+$; 17)	GR	A	239.001 67	0.4	3960
* 9889	Q (2, −6 ; 24)	GR	← (1, −7 ; 24)	GR	E	239.014 03	0.5	792
* 9890	Q (3, 1 $^-$; 16)	GR	← (3, 0 $^+$; 16)	GR	A	239.035 97	−0.5	4257
* 9891	R (1, 7 ; 16)	GR	← (0, 8 ; 15)	GR	A	239.040 28	2.2	1584
* 9892	P (1, 10 ; 18)	GR	← (0, 9 ; 19)	GR	A	239.050 73	1.1	1881
* 9893	Q (3, 1 $^-$; 15)	GR	← (3, 0 $^+$; 15)	GR	A	239.068 37	−0.4	4356
* 9894	Q (3, 1 $^-$; 14)	GR	← (3, 0 $^+$; 14)	GR	A	239.098 81	−0.4	4554
* 9895	R (1, 1 ; 35)	GR	← (0, 2 ; 34)	GR	E	239.107 38	2.3	1287
* 9896	Q (3, 1 $^-$; 13)	GR	← (3, 0 $^+$; 13)	GR	A	239.127 34	0.2	4653
* 9897	Q (3, 1 $^-$; 12)	GR	← (3, 0 $^+$; 12)	GR	A	239.153 96	−0.2	4653
* 9898	Q (3, 1 ; 11)	GR	← (3, 0 $^+$; 11)	GR	A	239.178 76	0.8	4752
* 9899	Q (3, 1 ; 10)	GR	← (3, 0 $^+$; 10)	GR	A	239.201 54	0.0	4950
* 9900	R (1, 6 ; 6)	GR	← (0, 5 ; 5)	GR	A	239.216 40	−0.4	8910



Index	upper state					lower state					σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
	T	$(n,\ K\ ;\ J)$	v			$(n,\ K\ ;\ J)$	v							
9901	Q	(3, 1 ; 9)	GR	←		(3, 0 +; 9)	GR		A	239.222 45		4.4	4752
* 9902	Q	(3, 1 ; 8)	GR	←		(3, 0 +; 8)	GR		A	239.241 51		2.5	4653
* 9903	Q	(3, 1 ; 7)	GR	←		(3, 0 +; 7)	GR		A	239.258 71		−0.6	4851
* 9904	Q	(3, 1 ; 6)	GR	←		(3, 0 +; 6)	GR		A	239.273 80		0.9	4356
* 9905	Q	(3, 1 ; 5)	GR	←		(3, 0 +; 5)	GR		A	239.287 15		1.4	4356
* 9906	R	(3, 2 ; 2)	GR	←		(3, 1 ; 1)	GR		E	239.290 87		0.0	3762
* 9907	Q	(3, 1 ; 4)	GR	←		(3, 0 +; 4)	GR		A	239.298 62		1.3	3564
* 9908	Q	(3, 1 ; 3)	GR	←		(3, 0 +; 3)	GR		A	239.308 11		1.2	2970
* 9909	Q	(3, 1 ; 2)	GR	←		(3, 0 +; 2)	GR		A	239.315 71		0.1	2673
* 9910	Q	(3, 1 ; 1)	GR	←		(3, 0 +; 1)	GR		A	239.321 57		0.9	7128
* 9911	R	(2, −6 ; 10)	GR	←		(1, −5 ; 9)	GR		E	239.325 12		0.2	7128
* 9912	P	(1, 2 ; 14)	GR	←		(0, 1 ; 15)	GR		E	239.333 70		−0.4	5049
* 9913	Q	(1, 8 ; 31)	GR	←		(0, 7 ; 31)	GR		E	239.354 97		−0.5	1089
* 9914	R	(1, 0 ; 22)	GR	←		(0, −1 ; 21)	GR		E	239.377 27		1.0	2673
* 9915	Q	(1, 8 ; 30)	GR	←		(0, 7 ; 30)	GR		E	239.387 57		0.7	990
* 9916	R	(3, −1 ; 1)	GR	←		(3, 0 ; 0)	GR		E	239.396 27		0.0	1485
* 9917	R	(1, 1 ; 28)	GR	←		(0, 0 ; 27)	GR		E	239.414 19		1.7	2079
* 9918	R	(3, 1 −; 27)	GR	←		(2, 2 ; 26)	GR		A	239.414 19		0.0	2079
* 9919	Q	(1, 8 ; 29)	GR	←		(0, 7 ; 29)	GR		E	239.419 74		0.6	1287
* 9920	Q	(1, 8 ; 28)	GR	←		(0, 7 ; 28)	GR		E	239.452 40		0.2	1485
* 9921	R	(1, 3 ; 13)	GR	←		(0, 4 ; 12)	GR		A	239.459 01		−0.3	4554
* 9922	Q	(1, 8 ; 27)	GR	←		(0, 7 ; 27)	GR		E	239.486 04		3.9	2871
* 9923	P	(1, −6 ; 10)	GR	←		(0, −5 ; 11)	GR		E	239.499 07		1.8	1386
* 9924	Q	(1, 8 ; 26)	GR	←		(0, 7 ; 26)	GR		E	239.519 40		0.0	1881
* 9925	Q	(1, 8 ; 25)	GR	←		(0, 7 ; 25)	GR		E	239.554 42		−0.4	2475
* 9926	R	(1, 5 ; 5)	GR	←		(0, 4 ; 4)	GR		E	239.580 83		0.1	8316
* 9927	Q	(1, 8 ; 24)	GR	←		(0, 7 ; 24)	GR		E	239.590 60		0.3	4752
* 9928	Q	(1, 8 ; 23)	GR	←		(0, 7 ; 23)	GR		E	239.628 43		1.5	2970
* 9929	R	(1, 4 ; 13)	GR	←		(0, 3 ; 12)	GR		E	239.635 83		0.5	7227
* 9930	Q	(1, 8 ; 22)	GR	←		(0, 7 ; 22)	GR		E	239.667 51		−0.1	3366
* 9931	R	(3, 1 ; 30)	GR	←		(2, 0 ; 29)	GR		E	239.670 46		0.7	2970
* 9932	P	(1, −1 ; 25)	GR	←		(0, 0 ; 26)	GR		E	239.697 03		−0.3	1584
* 9933	Q	(1, 8 ; 21)	GR	←		(0, 7 ; 21)	GR		E	239.708 20		−0.2	4059
* 9934	R	(2, 8 ; 32)	GR	←		(1, 7 ; 31)	GR		A	239.729 52		1.2	6237
* 9935	P	(1, 3 ; 5)	GR	←		(0, 2 +; 6)	GR		A	239.733 18		0.5	3267
* 9936	P	(1, 3 ; 5)	GR	←		(0, 2 −; 6)	GR		A	239.738 04		1.0	3663
* 9937	Q	(1, 8 ; 20)	GR	←		(0, 7 ; 20)	GR		E	239.750 49		0.3	4356
* 9938	R	(1, 2 −; 25)	GR	←		(0, 1 +; 24)	GR		A	239.784 84		−0.1	4950
* 9939	Q	(1, 8 ; 19)	GR	←		(0, 7 ; 19)	GR		E	239.794 24		−0.4	5247
* 9940	Q	(1, 8 ; 18)	GR	←		(0, 7 ; 18)	GR		E	239.839 31		0.0	5049
* 9941	Q	(1, 8 ; 17)	GR	←		(0, 7 ; 17)	GR		E	239.885 56		1.4	5049
* 9942	P	(1, −1 ; 17)	GR	←		(0, −2 ; 18)	GR		E	239.888 67		−0.2	4653
* 9943	Q	(1, 8 ; 16)	GR	←		(0, 7 ; 16)	GR		E	239.932 70		3.9	7128
* 9944	P	(1, 2 ; 2)	GR	←		(0, 3 ; 3)	GR		E	239.974 09		−0.6	4455
* 9945	Q	(1, 8 ; 15)	GR	←		(0, 7 ; 15)	GR		E	239.979 44		0.4	5247
9946	P	(1, 3 ; 20)	GR	←		(0, 2 ; 21)	GR		E	239.992 94		4.8	4950
* 9947	Q	(1, 8 ; 14)	GR	←		(0, 7 ; 14)	GR		E	240.026 54		1.1	6633
* 9948	P	(1, 9 ; 22)	GR	←		(0, 8 ; 23)	GR		E	240.034 74		−0.1	1287
* 9949	Q	(1, 8 ; 13)	GR	←		(0, 7 ; 13)	GR		E	240.072 82		−2.5	8316
* 9950	R	(2, 0 ; 11)	GR	←		(1, −1 ; 10)	GR		E	240.081 13		0.2	3663
9951	R	(1, −3 ; 23)	GR	←		(0, −2 ; 22)	GR		E	240.118 16		5.0	7326
9952	Q	(1, 8 ; 12)	GR	←		(0, 7 ; 12)	GR		E	240.118 16		−5.1	7326
* 9953	P	(2, 5 ; 18)	GR	←		(1, 4 ; 19)	GR		A	240.129 95		2.0	2574
* 9954	P	(1, −2 ; 5)	GR	←		(0, −1 ; 6)	GR		E	240.152 31		0.8	2673
* 9955	Q	(1, 8 ; 11)	GR	←		(0, 7 ; 11)	GR		E	240.162 61		1.0	5544
* 9956	R	(1, −2 ; 20)	GR	←		(0, −3 ; 19)	GR		E	240.178 56		−0.5	4554
* 9957	R	(1, 1 −; 9)	GR	←		(0, 0 +; 8)	GR		A	240.204 20		3.2	8415
* 9958	Q	(1, 8 ; 10)	GR	←		(0, 7 ; 10)	GR		E	240.204 20		−2.0	8415
* 9959	Q	(1, 8 ; 9)	GR	←		(0, 7 ; 9)	GR		E	240.244 39		0.3	4257
* 9960	R	(1, 1 −; 27)	GR	←		(0, 2 +; 26)	GR		A	240.251 33		−0.2	4257
* 9961	Q	(1, 8 ; 8)	GR	←		(0, 7 ; 8)	GR		E	240.281 31		0.3	3267
* 9962	R	(1, 3 ; 11)	GR	←		(0, 4 ; 10)	GR		E	240.312 03		−0.1	2970
* 9963	R	(3, 0 ; 29)	GR	←		(2, 1 ; 28)	GR		E	240.329 56		−1.4	3168
* 9964	Q	(4, −1 ; 27)	GR	←		(3, −2 ; 27)	GR		E	240.393 09		−0.8	1386
* 9965	P	(2, 3 ; 5)	GR	←		(1, 2 ; 6)	GR		A	240.428 23		3.2	792
* 9966	R	(1, 1 +; 27)	GR	←		(0, 2 −; 26)	GR		A	240.440 65		0.2	3168
* 9967	Q	(4, −1 ; 26)	GR	←		(3, −2 ; 26)	GR		E	240.443 02		−0.6	1683
* 9968	P	(1, 0 +; 24)	GR	←		(0, 1 −; 25)	GR		A	240.446 33		0.1	3762
* 9969	Q	(4, −1 ; 25)	GR	←		(3, −2 ; 25)	GR		E	240.490 64		0.2	1485
* 9970	Q	(4, −1 ; 24)	GR	←		(3, −2 ; 24)	GR		E	240.536 54		−0.9	2079
* 9971	R	(1, 7 ; 17)	GR	←		(0, 8 ; 16)	GR		A	240.545 70		0.5	1188
* 9972	Q	(4, −1 ; 23)	GR	←		(3, −2 ; 23)	GR		E	240.580 28		−0.2	2178
* 9973	Q	(4, −1 ; 22)	GR	←		(3, −2 ; 22)	GR		E	240.622 33		−0.2	2475
* 9974	Q	(4, −1 ; 21)	GR	←		(3, −2 ; 21)	GR		E	240.662 47		1.6	3465
* 9975	P	(1, 10 ; 17)	GR	←		(0, 9 ; 18)	GR		A	240.686 12		0.7	1287

Index	upper state					lower state					σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
	T	$(n,\ K\ ;\ J)$	v			$(n,\ K\ ;\ J)$	v							
* 9976	Q	(4, −1 ; 20)	GR	←		(3, −2 ; 20)	GR		E	240.700 62		−0.1	3465
* 9977	Q	(4, −1 ; 19)	GR	←		(3, −2 ; 19)	GR		E	240.736 73		−0.9	3069
* 9978	R	(1, 6 ; 7)	GR	←		(0, 5 ; 6)	GR		A	240.756 85		−0.5	8811
* 9979	Q	(4, −1 ; 18)	GR	←		(3, −2 ; 18)	GR		E	240.770 97		0.1	3168
* 9980	Q	(4, −1 ; 17)	GR	←		(3, −2 ; 17)	GR		E	240.803 47		0.0	3564
* 9981	Q	(4, −1 ; 16)	GR	←		(3, −2 ; 16)	GR		E	240.834 11		0.1	3564
* 9982	R	(3, 2 ; 3)	GR	←		(3, 1 ; 2)	GR		E	240.852 38		−0.4	4158
* 9983	Q	(4, −1 ; 15)	GR	←		(3, −2 ; 15)	GR		E	240.862 66		−0.3	4195
* 9984	R	(2, −6 ; 11)	GR	←		(1, −5 ; 10)	GR		E	240.864 14		−0.8	6831
* 9985	Q	(4, −1 ; 14)	GR	←		(3, −2 ; 14)	GR		E	240.889 67		0.7	3960
* 9986	Q	(4, −1 ; 13)	GR	←		(3, −2 ; 13)	GR		E	240.914 67		0.6	4059
* 9987	Q	(4, −1 ; 12)	GR	←		(3, −2 ; 12)	GR		E	240.937 90		0.9	3861
* 9988	P	(1, −1 ; 24)	GR	←		(0, 0 ; 25)	GR		E	240.944 65		−0.2	1386
* 9989	Q	(4, −1 ; 11)	GR	←		(3, −2 ; 11)	GR		E	240.959 25		0.6	5049
* 9990	R	(3, −1 ; 2)	GR	←		(3, 0 ; 1)	GR		E	240.959 25		0.0	5049
* 9991	P	(1, 2 ; 13)	GR	←		(0, 1 ; 14)	GR		E	240.969 72		−0.3	5247
* 9992	R	(1, 3 ; 14)	GR	←		(0, 4 ; 13)	GR		A	240.973 95		0.7	4752
* 9993	Q	(4, −1 ; 10)	GR	←		(3, −2 ; 10)	GR		E	240.978 82		−0.5	4059
* 9994	R	(1, 0 ; 23)	GR	←		(0, −1 ; 22)	GR		E	240.991 46		1.1	2079
* 9995	Q	(4, −1 ; 9)	GR	←		(3, −2 ; 9)	GR		E	240.996 61		−1.3	3960
* 9996	Q	(4, −1 ; 8)	GR	←		(3, −2 ; 8)	GR		E	241.012 58		0.3	3762
9997	Q	(4, −1 ; 7)	GR	←		(3, −2 ; 7)	GR		E	241.026 23		−7.7	9009
* 9998	Q	(4, −1 ; 6)	GR	←		(3, −2 ; 6)	GR		E	241.039 19		1.3	3267
* 9999	Q	(4, −1 ; 5)	GR	←		(3, −2 ; 5)	GR		E	241.049 80		1.6	2970
*10000	Q	(4, −1 ; 4)	GR	←		(3, −2 ; 4)	GR		E	241.058 65		−1.6	2673
10001	Q	(4, −1 ; 3)	GR	←		(3, −2 ; 3)	GR		E	241.064 92		−5.2	3465
*10002	Q	(4, −1 ; 2)	GR	←		(3, −2 ; 2)	GR		E	241.070 99		−0.7	1485
*10003	P	(1, −6 ; 9)	GR	←		(0, −5 ; 10)	GR		E	241.117 06		−0.1	1287
*10004	R	(1, 4 ; 14)	GR	←		(0, 3 ; 13)	GR		E	241.129 87		1.2	8712
*10005	R	(1, 5 ; 6)	GR	←		(0, 4 ; 5)	GR		E	241.129 87		−1.1	8712
*10006	R	(3, 1 ; 31)	GR	←		(2, 0 ; 30)	GR		E	241.172 44		0.4	2376
*10007	R	(2, 8 ; 33)	GR	←		(1, 7 ; 32)	GR		A	241.207 75		0.1	3663
*10008	R	(1, 1 ; 29)	GR	←		(0, 0 ; 28)	GR		E	241.256 98		−0.5	1782
*10009	P	(1, 3 ; 4)	GR	←		(0, 2 +; 5)	GR		A	241.330 16		0.2	2673
*10010	P	(1, 3 ; 4)	GR	←		(0, 2 −; 5)	GR		A	241.332 52		−0.2	2475
*10011	R	(1, −3 ; 24)	GR	←		(0, −2 ; 23)	GR		E	241.339 81		−0.1	4455
*10012	R	(1, 1 −; 28)	GR	←		(0, 2 +; 27)	GR		A	241.591 81		−0.5	3762
*10013	R	(1, 2 −; 26)	GR	←		(0, 1 +; 25)	GR		A	241.615 36		0.9	4554
*10014	R	(1, −2 ; 21)	GR	←		(0, −3 ; 20)	GR		E	241.618 07		−1.1	4851
*10015	R	(2, 0 ; 12)	GR	←		(1, −1 ; 11)	GR		E	241.620 19		1.2	3861
*10016	P	(1, −1 ; 16)	GR	←		(0, −2 ; 17)	GR		E	241.624 44		0.1	4950
*10017	P	(1, 9 ; 21)	GR	←		(0, 8 ; 22)	GR		E	241.684 30		−1.6	1584
*10018	P	(1, −2 ; 4)	GR	←		(0, −1 ; 5)	GR		E	241.743 60		−0.9	2079
*10019	R	(1, 1 −; 10)	GR	←		(0, 0 +; 9)	GR		A	241.757 24		0.1	7029
*10020	P	(1, 3 ; 19)	GR	←		(0, 2 ; 20)	GR		E	241.761 55		1.3	1881
*10021	P	(2, 5 ; 17)	GR	←		(1, 4 ; 18)	GR		A	241.810 22		−0.6	2673
*10022	R	(1, 3 ; 12)	GR	←		(0, 4 ; 11)	GR		E	241.812 57		0.7	3366
*10023	R	(3, 0 ; 30)	GR	←		(2, 1 ; 29)	GR		E	241.834 21		0.4	3267
*10024	R	(1, 1 +; 28)	GR	←		(0, 2 −; 27)	GR		A	241.897 91		0.8	2871
*10025	R	(1, 7 ; 18)	GR	←		(0, 8 ; 17)	GR		A	242.046 91		−0.4	1188
*10026	Q	(1, 2 ; 29)	GR	←		(0, 3 ; 29)	GR		E	242.150 32		2.1	693
*10027	P	(1, −1 ; 23)	GR	←		(0, 0 ; 24)	GR		E	242.217 17		0.4	2079
*10028	R	(1, 6 ; 8)	GR	←		(0, 5 ; 7)	GR		A	242.290 64		0.7	9009
*10029	P	(1, 0 +; 23)	GR	←		(0, 1 −; 24)	GR		A	242.303 10		1.6	4851
*10030	P	(1, 10 ; 16)	GR	←		(0, 9 ; 17)	GR		A	242.336 62		−0.3	1782
*10031	Q	(1, 2 ; 28)	GR	←		(0, 3 ; 28)	GR		E	242.367 48		2.5	495
*10032	R	(2, −6 ; 12)	GR	←		(1, −5 ; 11)	GR		E	242.399 04		−0.3	6831
*10033	R	(3, 2 ; 4)	GR	←		(3, 1 ; 3)	GR		E	242.412 03		0.6	4752
*10034	R	(3, 1 ; 2)	GR	←		(3, 0 +; 1)	GR		A	242.453 41		−0.9	792
*10035	R	(1, 3 ; 15)	GR	←		(0, 4 ; 14)	GR		A	242.483 91		0.5	4554
*10036	R	(3, −1 ; 3)	GR	←		(3, 0 ; 2)	GR		E	242.519 94		0.7	2574
*10037	R	(1, −3 ; 25)	GR	←		(0, −2 ; 24)	GR		E	242.530 16		−0.1	3861
*10038	Q	(1, 2 ; 27)	GR	←		(0, 3 ; 27)	GR		E	242.571 59		1.0	891
*10039	P	(1, 2 ; 12)	GR	←		(0, 1 ; 13)	GR		E	242.601 26		−0.6	5445
*10040	R	(1, 4 ; 15)	GR	←		(0, 3 ; 14)	GR		E	242.614 58		−0.6	7029
*10041	R	(1, 0 ; 24)	GR	←		(0, −1 ; 23)	GR		E	242.617 89		−1.9	1485
*10042	R	(3, 1 ; 32)	GR	←		(2, 0 ; 31)	GR		E	242.671 30		1.2	1980
*10043	R	(1, 5 ; 7)	GR	←		(0, 4 ; 6)	GR		E	242.675 93		0.2	8118
*10044	R	(2, 8 ; 34)	GR	←		(1, 7 ; 33)	GR		A	242.682 17		0.7	3465
*10045	P	(1, −6 ; 8)	GR	←		(0, −5 ; 9)	GR		E	242.730 58		−1.8	1188
*10046	Q	(1, 2 ; 26)	GR	←		(0, 3 ; 26)	GR		E	242.763 19		−1.1	837
*10047	R	(1, 1 −; 29)	GR	←		(0, 2 +; 28)	GR		A	242.915 50		0.9	3267
*10048	P	(1, 3 ; 3)	GR	←		(0, 2 ; 4)	GR		A	242.922 89		−0.4	1584
*10049	Q	(1, 2 ; 25)	GR	←		(0, 3 ; 25)	GR		E	242.942 96		−0.7	1089
*10050	R	(1, −2 ; 22)	GR	←		(0, −3 ; 21)	GR		E	243.047 14		−0.1	4257



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*10051	Q (1, 2 ; 24) GR	←	(0, 3 ; 24) GR	E	243.111 00	−1.5	1188
*10052	R (1, 1 ; 30) GR	←	(0, 0 ; 29) GR	E	243.115 25	−0.4	1386
*10053	R (2, 0 ; 13) GR	←	(1, −1 ; 12) GR	E	243.155 97	0.2	3564
10054	Q (1, 2 ; 23) GR	←	(0, 3 ; 23) GR	E	243.268 21	5.1	3168
*10055	R (1, 3 ; 13) GR	←	(0, 4 ; 12) GR	E	243.302 21	0.0	3366
*10056	R (1, 1 − ; 11) GR	←	(0, 0 + ; 10) GR	A	243.309 97	−0.7	6930
*10057	P (1, 9 ; 20) GR	←	(0, 8 ; 21) GR	E	243.332 29	−1.0	3069
*10058	P (1, −2 ; 3) GR	←	(0, −1 ; 4) GR	E	243.332 29	−1.3	3069
*10059	P (1, −1 ; 15) GR	←	(0, −2 ; 16) GR	E	243.339 77	−0.7	5841
*10060	Q (1, 2 ; 22) GR	←	(0, 3 ; 22) GR	E	243.413 59	1.7	2475
*10061	R (1, 2 − ; 27) GR	←	(0, 1 + ; 26) GR	A	243.468 20	1.2	2970
*10062	P (2, 5 ; 16) GR	←	(1, 4 ; 17) GR	A	243.478 72	0.1	2178
*10063	P (1, −1 ; 22) GR	←	(0, 0 ; 23) GR	E	243.514 72	2.7	1980
*10064	P (1, 3 ; 18) GR	←	(0, 2 ; 19) GR	E	243.521 57	1.0	2970
*10065	R (1, 7 ; 19) GR	←	(0, 8 ; 18) GR	A	243.544 03	1.3	1287
*10066	Q (1, 2 ; 21) GR	←	(0, 3 ; 21) GR	E	243.548 53	−0.8	2178
*10067	R (1, −7 ; 7) GR	←	(0, −6 ; 6) GR	E	243.670 39	0.1	8118
*10068	Q (1, 2 ; 20) GR	←	(0, 3 ; 20) GR	E	243.673 68	−1.4	2475
*10069	R (1, −3 ; 26) GR	←	(0, −2 ; 25) GR	E	243.689 20	0.5	3861
*10070	P (2, 1 ; 20) GR	←	(1, 2 ; 21) GR	E	243.759 70	−2.0	1188
*10071	Q (1, 2 ; 19) GR	←	(0, 3 ; 19) GR	E	243.789 55	0.6	3168
*10072	R (1, 6 ; 9) GR	←	(0, 5 ; 8) GR	A	243.817 12	0.9	8712
*10073	Q (1, 2 ; 18) GR	←	(0, 3 ; 18) GR	E	243.896 18	−0.5	3267
*10074	R (2, −6 ; 13) GR	←	(1, −5 ; 12) GR	E	243.929 29	−0.3	6930
*10075	R (3, 2 ; 5) GR	←	(3, 1 ; 4) GR	E	243.970 02	1.0	5445
10076	P (1, 10 ; 15) GR	←	(0, 9 ; 16) GR	A	243.970 02	−10.2	5445
*10077	R (1, 3 ; 16) GR	←	(0, 4 ; 15) GR	A	243.988 91	0.2	4653
*10078	Q (1, 2 ; 17) GR	←	(0, 3 ; 17) GR	E	243.994 34	−0.1	3564
*10079	R (3, 1 ; 3) GR	←	(3, 0 + ; 2) GR	A	244.013 82	−0.1	1287
*10080	R (3, −1 ; 4) GR	←	(3, 0 ; 3) GR	E	244.078 98	0.9	3069
*10081	Q (1, 2 ; 16) GR	←	(0, 3 ; 16) GR	E	244.084 31	0.0	4158
*10082	R (1, 4 ; 16) GR	←	(0, 3 ; 15) GR	E	244.089 65	0.0	6930
*10083	R (2, 8 ; 35) GR	←	(1, 7 ; 34) GR	A	244.152 21	0.2	2871
*10084	P (1, 0 + ; 22) GR	←	(0, 1 − ; 23) GR	A	244.160 04	0.4	4752
*10085	Q (1, 2 ; 15) GR	←	(0, 3 ; 15) GR	E	244.166 63	−0.3	4851
*10086	R (3, 1 ; 33) GR	←	(2, 0 ; 32) GR	E	244.167 09	0.0	2124
*10087	R (1, 5 ; 8) GR	←	(0, 4 ; 7) GR	E	244.219 29	0.3	8316
*10088	R (1, 1 − ; 30) GR	←	(0, 2 + ; 29) GR	A	244.221 91	0.5	3762
*10089	P (1, 2 ; 11) GR	←	(0, 1 ; 12) GR	E	244.228 38	0.0	5346
*10090	Q (1, 2 ; 14) GR	←	(0, 3 ; 14) GR	E	244.241 71	−0.1	4356
*10091	R (1, 0 ; 25) GR	←	(0, −1 ; 24) GR	E	244.257 66	−1.3	1386
*10092	Q (1, 2 ; 13) GR	←	(0, 3 ; 13) GR	E	244.309 96	0.1	4554
*10093	Q (1, 2 ; 12) GR	←	(0, 3 ; 12) GR	E	244.371 68	0.1	4752
*10094	Q (1, 2 ; 11) GR	←	(0, 3 ; 11) GR	E	244.427 23	−0.8	4851
*10095	R (1, −2 ; 23) GR	←	(0, −3 ; 22) GR	E	244.464 84	−0.5	3960
*10096	Q (1, 2 ; 10) GR	←	(0, 3 ; 10) GR	E	244.477 08	0.0	4950
*10097	R (1, 5 ; 5) GR	←	(0, 4 ; 4) GR	A	244.515 86	0.1	8217
*10098	Q (1, 2 ; 9) GR	←	(0, 3 ; 9) GR	E	244.521 42	0.3	4851
*10099	Q (1, 2 ; 8) GR	←	(0, 3 ; 8) GR	E	244.560 48	−0.1	4653
*10100	Q (1, 2 ; 7) GR	←	(0, 3 ; 7) GR	E	244.594 61	−0.1	5049
*10101	Q (1, 2 ; 6) GR	←	(0, 3 ; 6) GR	E	244.623 97	−0.2	4554
*10102	R (1, −4 ; 4) GR	←	(0, −3 ; 3) GR	E	244.629 59	−0.3	7623
*10103	Q (1, 2 ; 5) GR	←	(0, 3 ; 5) GR	E	244.648 87	0.5	3960
*10104	Q (1, 2 ; 4) GR	←	(0, 3 ; 4) GR	E	244.669 24	−0.1	3168
*10105	Q (1, 2 ; 3) GR	←	(0, 3 ; 3) GR	E	244.685 51	0.6	2475
*10106	R (2, 0 ; 14) GR	←	(1, −1 ; 13) GR	E	244.688 54	−0.1	3663
*10107	R (1, 3 ; 14) GR	←	(0, 4 ; 13) GR	E	244.779 83	−0.2	2871
*10108	R (1, −3 ; 27) GR	←	(0, −2 ; 26) GR	E	244.817 63	−0.6	2970
*10109	P (1, −1 ; 21) GR	←	(0, 0 ; 22) GR	E	244.836 67	0.1	1782
*10110	R (1, 1 − ; 12) GR	←	(0, 0 + ; 11) GR	A	244.862 58	0.9	6831
*10111	P (1, 9 ; 19) GR	←	(0, 8 ; 20) GR	E	244.978 60	0.2	1485
*10112	R (1, 1 ; 31) GR	←	(0, 0 ; 30) GR	E	244.988 88	2.7	1089
*10113	R (1, 7 ; 20) GR	←	(0, 8 ; 19) GR	A	245.036 84	1.1	5544
*10114	P (1, −1 ; 14) GR	←	(0, −2 ; 15) GR	E	245.036 84	1.0	5544
*10115	P (1, −8 ; 26) GR	←	(0, −7 ; 27) GR	E	245.079 81	0.8	792
*10116	P (2, 5 ; 15) GR	←	(1, 4 ; 16) GR	A	245.135 90	0.5	2673
*10117	R (1, −7 ; 8) GR	←	(0, −6 ; 7) GR	E	245.206 96	0.8	8217
*10118	P (1, 3 ; 17) GR	←	(0, 2 ; 18) GR	E	245.271 68	−0.4	2178
*10119	R (1, 6 ; 10) GR	←	(0, 5 ; 9) GR	A	245.335 33	0.5	9405
*10120	P (2, 1 ; 19) GR	←	(1, 2 ; 20) GR	E	245.384 39	−0.6	1188
*10121	R (2, −6 ; 14) GR	←	(1, −5 ; 13) GR	E	245.454 64	0.4	6732
*10122	R (1, 3 ; 17) GR	←	(0, 4 ; 16) GR	A	245.488 86	0.3	4653
*10123	R (1, 1 − ; 31) GR	←	(0, 2 + ; 30) GR	A	245.511 28	−0.3	0
*10124	R (3, 2 ; 6) GR	←	(3, 1 ; 5) GR	E	245.525 51	0.6	4950
*10125	R (1, 4 ; 17) GR	←	(0, 3 ; 16) GR	E	245.554 23	0.5	6831

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*10126	R (3, 1 ; 4) GR	←	(3, 0 + ; 3) GR	A	245.571 90	−1.2	1881
*10127	P (1, 10 ; 14) GR	←	(0, 9 ; 15) GR	A	245.603 80	0.8	1485
*10128	R (2, 8 ; 36) GR	←	(1, 7 ; 35) GR	A	245.618 17	0.1	2178
*10129	R (3, −1 ; 5) GR	←	(3, 0 ; 4) GR	E	245.635 81	1.1	3168
*10130	R (1, 5 ; 9) GR	←	(0, 4 ; 8) GR	E	245.760 56	0.6	8217
*10131	P (1, 2 ; 10) GR	←	(0, 1 ; 11) GR	E	245.850 90	0.1	5346
*10132	R (1, −2 ; 24) GR	←	(0, −3 ; 23) GR	E	245.870 82	0.2	3366
*10133	R (1, 0 ; 26) GR	←	(0, −1 ; 25) GR	E	245.911 43	0.5	1188
*10134	R (1, −3 ; 28) GR	←	(0, −2 ; 27) GR	E	245.916 34	0.6	2574
*10135	P (1, 0 + ; 21) GR	←	(0, 1 − ; 22) GR	A	246.015 66	−0.7	5247
*10136	R (1, 5 ; 6) GR	←	(0, 4 ; 5) GR	A	246.063 45	−0.5	8217
*10137	R (1, −4 ; 5) GR	←	(0, −3 ; 4) GR	E	246.181 94	−2.2	7711
*10138	P (1, −1 ; 20) GR	←	(0, 0 ; 21) GR	E	246.183 25	−3.3	2860
*10139	R (2, 0 ; 15) GR	←	(1, −1 ; 14) GR	E	246.217 84	0.5	3465
*10140	R (1, 3 ; 15) GR	←	(0, 4 ; 14) GR	E	246.244 65	−1.4	3069
*10141	R (1, 1 − ; 13) GR	←	(0, 0 + ; 12) GR	A	246.415 51	0.5	6732
*10142	Q (1, 3 + ; 31) GR	←	(0, 2 + ; 31) GR	A	246.438 78	−0.9	3168
*10143	R (1, 7 ; 21) GR	←	(0, 8 ; 20) GR	A	246.525 43	1.6	1386
*10144	P (1, 9 ; 18) GR	←	(0, 8 ; 19) GR	E	246.622 38	−2.1	1980
*10145	Q (1, 3 + ; 30) GR	←	(0, 2 + ; 30) GR	A	246.631 59	−0.5	3366
*10146	P (1, −1 ; 13) GR	←	(0, −2 ; 14) GR	E	246.717 43	0.0	5346
*10147	P (1, −8 ; 25) GR	←	(0, −7 ; 26) GR	E	246.733 89	0.2	2673
*10148	R (1, −7 ; 9) GR	←	(0, −6 ; 8) GR	E	246.737 68	0.4	7821
10149	P (2, 5 ; 14) GR	←	(1, 4 ; 15) GR	A	246.782 76	4.7	3267
*10150	Q (1, 3 + ; 29) GR	←	(0, 2 + ; 29) GR	A	246.818 83	−0.2	3960
*10151	R (1, 6 ; 11) GR	←	(0, 5 ; 10) GR	A	246.844 63	0.8	8712
*10152	R (1, 1 ; 32) GR	←	(0, 0 ; 31) GR	E	246.875 97	−1.8	1188
*10153	R (2, −6 ; 15) GR	←	(1, −5 ; 14) GR	E	246.974 55	−0.2	6534
*10154	R (1, 3 ; 18) GR	←	(0, 4 ; 17) GR	A	246.983 59	−0.2	4950
*10155	R (1, −3 ; 29) GR	←	(0, −2 ; 28) GR	E	246.986 43	−0.8	2574
*10156	Q (1, 3 + ; 28) GR	←	(0, 2 + ; 28) GR	A	246.999 92	−0.8	4257
*10157	P (2, 1 ; 18) GR	←	(1, 2 ; 19) GR	E	247.005 80	0.3	1757
*10158	R (1, 4 ; 18) GR	←	(0, 3 ; 17) GR	E	247.007 67	0.4	6435
*10159	P (1, 3 ; 16) GR	←	(0, 2 ; 17) GR	E	247.010 62	−0.4	2772
*10160	R (3, 2 ; 7) GR	←	(3, 1 ; 6) GR	E	247.079 27	1.0	5544
*10161	R (2, 8 ; 37) GR	←	(1, 7 ; 36) GR	A	247.079 27	−0.5	5544
*10162	R (3, 1 ; 5) GR	←	(3, 0 + ; 4) GR	A	247.128 06	−1.3	2277
*10163	Q (1, 3 + ; 27) GR	←	(0, 2 + ; 27) GR	A	247.174 34	−0.5	4950
*10164	R (3, −1 ; 6) GR	←	(3, 0 ; 5) GR	E	247.190 54	0.4	3564
*10165	Q (1, −5 ; 29) GR	←	(0, −6 ; 29) GR	E	247.193 11	−3.2	891
*10166	Q (1, −5 ; 28) GR	←	(0, −6 ; 28) GR	E	247.207 89	−0.7	891
*10167	P (1, 10 ; 13) GR	←	(0, 9 ; 14) GR	A	247.233 61	0.6	1287
*10168	R (1, 2 − ; 29) GR	←	(0, 1 + ; 28) GR	A	247.249 00	−0.6	1188
*10169	Q (1, −5 ; 26) GR	←	(0, −6 ; 26) GR	E	247.249 00	−1.6	1188
*10170	R (1, −2 ; 25) GR	←	(0, −3 ; 24) GR	E	247.264 49	1.2	3267
*10171	Q (1, −5 ; 25) GR	←	(0, −6 ; 25) GR	E	247.275 43	0.8	1485
*10172	R (1, 5 ; 10) GR	←	(0, 4 ; 9) GR	E	247.300 51	1.2	8217
*10173	Q (1, −5 ; 24) GR	←	(0, −6 ; 24) GR	E	247.304 76	−2.5	2178
*10174	R (4, −1 ; 4) GR	←	(3, −2 ; 3) GR	E	247.320 59	−0.1	1287
*10175	Q (1, −5 ; 23) GR	←	(0, −6 ; 23) GR	E	247.337 72	−0.4	2178
*10176	Q (1, 3 + ; 26) GR	←	(0, 2 + ; 26) GR	A	247.341 62	0.3	5247
*10177	Q (1, −5 ; 22) GR	←	(0, −6 ; 22) GR	E	247.373 08	−0.3	2376
*10178	Q (1, −5 ; 21) GR	←	(0, −6 ; 21) GR	E	247.410 66	−0.4	2574
*10179	Q (1, −5 ; 20) GR	←	(0, −6 ; 20) GR	E	247.450 13	−0.1	3168
*10180	P (1, 2 ; 9) GR	←	(0, 1 ; 10) GR	E	247.468 98	0.4	5346
*10181	Q (1, −5 ; 19) GR	←	(0, −6 ; 19) GR	E	247.491 12	0.1	3564
*10182	Q (1, 3 + ; 25) GR	←	(0, 2 + ; 25) GR	A	247.501 35	0.2	5841
*10183	Q (1, −5 ; 18) GR	←	(0, −6 ; 18) GR	E	247.533 24	0.9	3861
*10184	P (1, −1 ; 19) GR	←	(0, 0 ; 20) GR	E	247.555 01	−0.6	2970
*10185	Q (1, −5 ; 17) GR	←	(0, −6 ; 17) GR	E	247.575 69	0.4	4158
*10186	R (1, 0 ; 27) GR	←	(0, −1 ; 26) GR	E	247.579 67	3.2	990
*10187	R (1, 5 ; 7) GR	←	(0, 4 ; 6) GR	A	247.606 08	−0.5	8415
*10188	Q (1, −5 ; 16) GR	←	(0, −6 ; 16) GR	E	247.618 46	−0.1	4356
*10189	Q (1, 3 + ; 24) GR	←	(0, 2 + ; 24) GR	A	247.653 38	0.5	6237
*10190	Q (1, −5 ; 15) GR	←	(0, −6 ; 15) GR	E	247.661 07	−0.7	4356
*10191	R (1, 3 ; 16) GR	←	(0, 4 ; 15) GR	E	247.695 54	−0.7	2970
*10192	Q (1, −5 ; 14) GR	←	(0, −6 ; 14) GR	E	247.702 94	−0.9	4554
*10193	R (1, −4 ; 6) GR	←	(0, −3 ; 5) GR	E	247.730 54	0.9	8118
*10194	R (2, 0 ; 16) GR	←	(1, −1 ; 15) GR	E	247.743 90	2.9	6039
*10195	Q (1, −5 ; 13) GR	←	(0, −6 ; 13) GR	E	247.743 90	−0.9	6039
*10196	R (1, 4 ; 6) GR	←	(0, 5 ; 5) GR	A	247.755 07	−0.7	1287
*10197	Q (1, −5 ; 12) GR	←	(0, −6 ; 12) GR	E	247.783 74	0.5	4653
*10198	Q (1, 3 + ; 23) GR	←	(0, 2 + ; 23) GR	A	247.797 67	0.5	6435
*10199	Q (1, −5 ; 11) GR	←	(0, −6 ; 11) GR	E	247.821 65	−0.5	4653
*10200	Q (1, −5 ; 10) GR	←	(0, −6 ; 10) GR	E	247.857 34	−3.2	7227



Index	upper state T (n, K ; J)	ν	←	lower state (n, K ; J)	ν	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*10201	P (1, 0 +; 20)	GR	(0, 1 −; 21)	GR	A	247.868 60	−0.2	5346
*10202	Q (1, −5 ; 9)	GR	(0, −6 ; 9)	GR	E	247.891 45	0.7	4752
*10203	Q (1, −5 ; 8)	GR	(0, −6 ; 8)	GR	E	247.922 48	0.0	4455
*10204	Q (1, 3 +; 22)	GR	(0, 2 +; 22)	GR	A	247.933 90	−0.3	6534
*10205	Q (1, −5 ; 7)	GR	(0, −6 ; 7)	GR	E	247.950 83	0.3	3861
*10206	R (1, 1 −; 14)	GR	(0, 0 +; 13)	GR	A	247.969 43	−0.2	6732
*10207	Q (1, −5 ; 6)	GR	(0, −6 ; 6)	GR	E	247.976 08	0.4	2475
*10208	R (1, 7 ; 22)	GR	(0, 8 ; 21)	GR	A	248.009 56	1.7	1287
10209	R (1, −3 ; 30)	GR	(0, −2 ; 29)	GR	E	248.029 12	4.4	1881
*10210	Q (1, 3 ; 21)	GR	(0, 2 +; 21)	GR	A	248.062 35	−5.1	6831
*10211	Q (1, 3 ; 20)	GR	(0, 2 +; 20)	GR	A	248.182 91	−5.7	7128
*10212	R (1, −7 ; 10)	GR	(0, −6 ; 9)	GR	E	248.262 15	0.9	7920
*10213	P (1, 9 ; 17)	GR	(0, 8 ; 18)	GR	E	248.264 13	0.1	1881
*10214	Q (1, 3 ; 19)	GR	(0, 2 +; 19)	GR	A	248.295 75	−4.1	7326
*10215	R (1, 6 ; 12)	GR	(0, 5 ; 11)	GR	A	248.344 10	0.2	8712
*10216	P (1, −1 ; 12)	GR	(0, −2 ; 13)	GR	E	248.383 47	−0.7	5742
*10217	P (1, −8 ; 24)	GR	(0, −7 ; 25)	GR	E	248.387 48	2.5	1683
*10218	Q (1, 3 ; 18)	GR	(0, 2 +; 18)	GR	A	248.400 96	−2.4	7623
*10219	P (2, 5 ; 13)	GR	(1, 4 ; 14)	GR	A	248.419 15	2.3	5841
*10220	R (1, 4 ; 19)	GR	(0, 3 ; 18)	GR	E	248.448 93	0.2	6138
*10221	R (1, 3 ; 19)	GR	(0, 4 ; 18)	GR	A	248.473 08	0.8	4356
*10222	R (2, −6 ; 16)	GR	(1, −5 ; 15)	GR	E	248.488 65	0.7	6633
*10223	Q (1, 3 ; 17)	GR	(0, 2 +; 17)	GR	A	248.498 84	−2.4	7821
*10224	R (2, 8 ; 38)	GR	(1, 7 ; 37)	GR	A	248.536 66	0.1	1683
*10225	Q (1, 3 ; 16)	GR	(0, 2 +; 16)	GR	A	248.589 58	−0.2	7920
*10226	P (2, 1 ; 17)	GR	(1, 2 ; 18)	GR	E	248.623 88	0.1	1485
*10227	R (3, 2 ; 8)	GR	(3, 1 ; 7)	GR	E	248.630 93	0.8	7209
*10228	Q (1, 3 −; 23)	GR	(0, 2 −; 23)	GR	A	248.631 51	2.3	8514
*10229	Q (1, 3 −; 24)	GR	(0, 2 −; 24)	GR	A	248.632 47	0.3	0
*10230	Q (1, 3 −; 22)	GR	(0, 2 −; 22)	GR	A	248.638 15	0.9	6831
*10231	Q (1, 3 −; 25)	GR	(0, 2 −; 25)	GR	A	248.642 70	0.6	6435
*10232	R (1, −2 ; 26)	GR	(0, −3 ; 25)	GR	E	248.645 03	0.7	3465
*10233	Q (1, 3 ; 21)	GR	(0, 2 −; 21)	GR	A	248.652 11	5.4	7029
*10234	Q (1, 3 −; 26)	GR	(0, 2 −; 26)	GR	A	248.662 89	−0.2	5544
10235	Q (1, 3 ; 20)	GR	(0, 2 −; 20)	GR	A	248.672 79	9.2	9009
10236	Q (1, 3 ; 15)	GR	(0, 2 +; 15)	GR	A	248.672 79	−6.1	9009
*10237	R (3, 1 ; 6)	GR	(3, 0 +; 5)	GR	A	248.682 19	−1.4	2475
*10238	Q (1, 3 −; 27)	GR	(0, 2 −; 27)	GR	A	248.694 05	−0.1	4950
*10239	Q (1, 3 ; 19)	GR	(0, 2 −; 19)	GR	A	248.697 66	2.6	7227
*10240	Q (1, 3 ; 18)	GR	(0, 2 −; 18)	GR	A	248.727 49	2.7	7722
*10241	Q (1, 3 −; 28)	GR	(0, 2 −; 28)	GR	A	248.727 49	1.1	7722
*10242	P (1, 3 ; 15)	GR	(0, 2 ; 16)	GR	E	248.737 37	−0.2	5346
*10243	R (3, −1 ; 7)	GR	(3, 0 ; 6)	GR	E	248.743 37	1.0	3960
*10244	Q (1, 3 ; 14)	GR	(0, 2 +; 14)	GR	A	248.750 41	−0.5	7722
*10245	Q (1, 3 ; 17)	GR	(0, 2 −; 17)	GR	A	248.760 90	2.7	7821
10246	Q (1, 3 −; 29)	GR	(0, 2 −; 29)	GR	A	248.760 90	−8.1	7821
*10247	Q (1, 3 ; 16)	GR	(0, 2 −; 16)	GR	A	248.796 95	0.9	7722
10248	Q (1, 3 −; 30)	GR	(0, 2 −; 30)	GR	A	248.796 95	−3.5	7722
10249	Q (1, 3 ; 13)	GR	(0, 2 +; 13)	GR	A	248.821 67	5.0	9108
*10250	Q (1, 3 ; 15)	GR	(0, 2 −; 15)	GR	A	248.835 06	2.0	8019
*10251	R (1, 5 ; 11)	GR	(0, 4 ; 10)	GR	E	248.839 73	−0.1	8316
*10252	P (1, 10 ; 12)	GR	(0, 9 ; 13)	GR	A	248.860 28	−0.2	1287
*10253	Q (1, 3 ; 14)	GR	(0, 2 −; 14)	GR	A	248.874 34	1.1	8019
*10254	R (4, −1 ; 5)	GR	(3, −2 ; 4)	GR	E	248.876 96	0.7	1485
*10255	Q (1, 3 ; 12)	GR	(0, 2 +; 12)	GR	A	248.885 51	−0.6	8316
*10256	Q (1, 3 ; 13)	GR	(0, 2 −; 13)	GR	A	248.914 18	0.3	8019
*10257	Q (1, 3 ; 11)	GR	(0, 2 +; 11)	GR	A	248.944 03	−0.3	8217
*10258	P (1, −1 ; 18)	GR	(0, 0 ; 19)	GR	E	248.950 26	−2.2	4950
*10259	Q (1, 3 ; 12)	GR	(0, 2 −; 12)	GR	A	248.953 95	0.9	7920
*10260	Q (1, 3 ; 11)	GR	(0, 2 −; 11)	GR	A	248.992 90	0.5	8316
*10261	Q (1, 3 ; 10)	GR	(0, 2 +; 10)	GR	A	248.996 88	0.3	7920
*10262	Q (1, 8 ; 29)	GR	(0, 8 ; 29)	GR	A	249.010 09	−3.3	2871
*10263	Q (1, 3 ; 10)	GR	(0, 2 −; 10)	GR	A	249.030 70	0.2	8019
*10264	Q (1, 3 ; 9)	GR	(0, 2 +; 9)	GR	A	249.044 08	0.7	8118
*10265	Q (1, 3 ; 9)	GR	(0, 2 −; 9)	GR	A	249.066 62	0.3	8019
*10266	P (1, 2 ; 8)	GR	(0, 1 ; 9)	GR	E	249.082 56	0.6	5445
*10267	Q (1, 3 ; 8)	GR	(0, 2 +; 8)	GR	A	249.085 94	−0.1	7623
*10268	Q (1, 3 ; 8)	GR	(0, 2 −; 8)	GR	A	249.100 35	0.2	7623
*10269	Q (1, 3 ; 7)	GR	(0, 2 +; 7)	GR	A	249.122 76	−0.1	7722
*10270	Q (1, 3 ; 7)	GR	(0, 2 −; 7)	GR	A	249.131 41	0.1	8118
*10271	R (1, 3 ; 17)	GR	(0, 4 ; 16)	GR	E	249.131 41	−1.1	8118
*10272	R (1, 5 ; 8)	GR	(0, 4 ; 7)	GR	A	249.143 58	−0.3	8316
*10273	Q (1, 3 ; 6)	GR	(0, 2 +; 6)	GR	A	249.154 59	−0.3	7623
*10274	Q (1, 3 ; 6)	GR	(0, 2 −; 6)	GR	A	249.159 38	−0.4	7326
*10275	Q (1, 9 ; 37)	GR	(0, 8 ; 37)	GR	A	249.169 75	0.0	2178
*10276	Q (1, 3 ; 5)	GR	(0, 2 +; 5)	GR	A	249.181 63	0.3	7722
10277	Q (1, 8 ; 28)	GR	(0, 8 ; 28)	GR	A	249.181 63	−7.5	7722
*10278	Q (1, 3 ; 5)	GR	(0, 2 −; 5)	GR	A	249.183 99	0.0	7227
*10279	Q (1, 3 ; 4)	GR	(0, 2 ; 4)	GR	A	249.204 42	1.2	8415
*10280	Q (1, 3 ; 3)	GR	(0, 2 ; 3)	GR	A	249.221 80	1.2	7227
*10281	R (1, 0 ; 28)	GR	(0, −1 ; 27)	GR	E	249.261 90	−2.6	792
*10282	R (2, 0 ; 17)	GR	(1, −1 ; 16)	GR	E	249.265 93	1.1	3465
*10283	R (1, −4 ; 7)	GR	(0, −3 ; 6)	GR	E	249.274 73	0.8	8217
*10284	R (1, 4 ; 7)	GR	(0, 5 ; 6)	GR	A	249.302 74	−0.2	2277
*10285	Q (1, −2 ; 18)	GR	(0, −1 ; 18)	GR	E	249.320 05	−0.1	6534
*10286	Q (1, −2 ; 17)	GR	(0, −1 ; 17)	GR	E	249.322 48	2.1	6831
*10287	Q (1, −2 ; 19)	GR	(0, −1 ; 19)	GR	E	249.325 10	0.3	6039
*10288	Q (1, −2 ; 16)	GR	(0, −1 ; 16)	GR	E	249.331 20	−0.3	6237
*10289	Q (1, −2 ; 20)	GR	(0, −1 ; 20)	GR	E	249.338 45	0.1	5544
*10290	Q (1, −2 ; 15)	GR	(0, −1 ; 15)	GR	E	249.345 41	0.0	6336
*10291	Q (1, 8 ; 27)	GR	(0, 8 ; 27)	GR	A	249.346 90	−0.8	5643
*10292	Q (1, −2 ; 21)	GR	(0, −1 ; 21)	GR	E	249.360 62	−0.2	5049
*10293	Q (1, −2 ; 14)	GR	(0, −1 ; 14)	GR	E	249.364 37	1.0	6237
*10294	Q (1, −2 ; 13)	GR	(0, −1 ; 13)	GR	E	249.386 69	−0.5	7524
*10295	Q (1, −2 ; 22)	GR	(0, −1 ; 22)	GR	E	249.392 71	0.2	4851
*10296	Q (1, 9 ; 36)	GR	(0, 8 ; 36)	GR	A	249.392 71	0.0	4851
*10297	Q (1, −2 ; 12)	GR	(0, −1 ; 12)	GR	E	249.411 98	0.2	6435
*10298	Q (1, −2 ; 23)	GR	(0, −1 ; 23)	GR	E	249.435 15	0.2	5544
*10299	Q (1, −2 ; 11)	GR	(0, −1 ; 11)	GR	E	249.438 96	0.2	6336
*10300	Q (1, −2 ; 10)	GR	(0, −1 ; 10)	GR	E	249.466 93	0.6	6534
*10301	Q (1, −2 ; 24)	GR	(0, −1 ; 24)	GR	E	249.488 60	1.9	4752
10302	R (1, 7 ; 23)	GR	(0, 8 ; 22)	GR	A	249.488 60	−5.6	4752
*10303	Q (2, 3 ; 23)	GR	(1, 2 −; 23)	GR	A	249.490 24	0.3	0
*10304	Q (1, −2 ; 9)	GR	(0, −1 ; 9)	GR	E	249.494 98	0.0	6336
*10305	Q (1, 8 ; 26)	GR	(0, 8 ; 26)	GR	A	249.504 26	−1.4	1485
*10306	Q (2, 3 ; 22)	GR	(1, 2 −; 22)	GR	A	249.513 22	−1.8	1386
*10307	Q (1, −2 ; 8)	GR	(0, −1 ; 8)	GR	E	249.522 48	0.1	6633
*10308	R (1, 1 −; 15)	GR	(0, 0 +; 14)	GR	A	249.524 98	−0.6	6930
*10309	Q (2, 3 ; 21)	GR	(1, 2 −; 21)	GR	A	249.536 71	−2.1	2178
*10310	Q (1, −2 ; 7)	GR	(0, −1 ; 7)	GR	E	249.548 54	−1.1	6435
*10311	Q (1, −2 ; 25)	GR	(0, −1 ; 25)	GR	E	249.553 20	−0.5	4158
*10312	Q (2, 3 ; 23)	GR	(1, 2 +; 23)	GR	A	249.558 01	−0.1	1485
*10313	Q (2, 3 ; 20)	GR	(1, 2 −; 20)	GR	A	249.560 76	−0.4	1683
*10314	Q (2, 3 ; 22)	GR	(1, 2 +; 22)	GR	A	249.570 38	1.1	1881
*10315	Q (1, −2 ; 6)	GR	(0, −1 ; 6)	GR	E	249.572 92	−0.4	6138
*10316	Q (2, 3 ; 21)	GR	(1, 2 +; 21)	GR	A	249.584 68	2.1	2970
*10317	Q (2, 3 ; 19)	GR	(1, 2 −; 19)	GR	A	249.584 68	−2.1	2970
*10318	Q (1, −2 ; 5)	GR	(0, −1 ; 5)	GR	E	249.594 81	0.9	5346
*10319	Q (2, 3 ; 20)	GR	(1, 2 +; 20)	GR	A	249.599 75	−2.1	2475
10320	Q (1, 9 ; 35)	GR	(0, 8 ; 35)	GR	A	249.608 73	3.9	2376
*10321	Q (2, 3 ; 18)	GR	(1, 2 −; 18)	GR	A	249.608 73	−1.7	2376
*10322	Q (1, −2 ; 4)	GR	(0, −1 ; 4)	GR	E	249.613 67	−0.7	4950
*10323	Q (2, 3 ; 19)	GR	(1, 2 +; 19)	GR	A	249.616 86	−1.8	2079
*10324	Q (1, −2 ; 3)	GR	(0, −1 ; 3)	GR	E	249.629 46	1.3	5841
*10325	Q (1, −2 ; 26)	GR	(0, −1 ; 26)	GR	E	249.629 46	−2.6	5841
*10326	Q (2, 3 ; 17)	GR	(1, 2 −; 17)	GR	A	249.632 54	−1.0	2574
*10327	Q (2, 3 ; 18)	GR	(1, 2 +; 18)	GR	A	249.634 90	0.2	2079
*10328	Q (1, −2 ; 2)	GR	(0, −1 ; 2)	GR	E	249.641 24	−0.3	3366
*10329	Q (2, 3 ; 17)	GR	(1, 2 +; 17)	GR	A	249.653 76	3.3	2673
10330	Q (1, 8 ; 25)	GR	(0, 8 ; 25)	GR	A	249.653 76	−8.6	2673
*10331	Q (2, 3 ; 16)	GR	(1, 2 −; 16)	GR	A	249.656 00	−0.4	2277
*10332	Q (2, 3 ; 16)	GR	(1, 2 +; 16)	GR	A	249.672 61	0.6	2376
*10333	Q (2, 3 ; 15)	GR	(1, 2 −; 15)	GR	A	249.678 94	1.0	2574
*10334	Q (2, 3 ; 15)	GR	(1, 2 +; 15)	GR	A	249.691 62	−0.4	2079
*10335	Q (2, 3 ; 14)	GR	(1, 2 −; 14)	GR	A	249.701 00	−0.1	2376
*10336	Q (2, 3 ; 14)	GR	(1, 2 +; 14)	GR	A	249.710 84	0.1	2376
*10337	P (1, 0 +; 19)	GR	(0, 1 −; 20)	GR	A	249.717 43	1.7	6237
10338	Q (1, −2 ; 27)	GR	(0, −1 ; 27)	GR	E	249.718 70	3.9	1426
*10339	Q (2, 3 ; 13)	GR	(1, 2 −; 13)	GR	A	249.722 29	−0.9	2376
*10340	Q (2, 3 ; 13)	GR	(1, 2 +; 13)	GR	A	249.729 81	0.6	2277
*10341	Q (2, 3 ; 12)	GR	(1, 2 −; 12)	GR	A	249.742 60	−1.1	2376
*10342	Q (2, 3 ; 12)	GR	(1, 2 +; 12)	GR	A	249.748 11	0.1	2475
*10343	Q (2, 3 ; 11)	GR	(1, 2 −; 11)	GR	A	249.762 00	1.0	2574
*10344	Q (2, 3 ; 11)	GR	(1, 2 +; 11)	GR	A	249.765 91	0.7	2178
*10345	R (1, −7 ; 11)	GR	(0, −6 ; 10)	GR	E	249.780 04	0.8	8415
*10346	Q (2, 3 ; 10)	GR	(1, 2 −; 10)	GR	A	249.780 04	0.7	8415
*10347	Q (2, 3 ; 10)	GR	(1, 2 +; 10)	GR	A	249.782 63	−0.3	2970
*10348	Q (2, 3 ; 9)	GR	(1, 2 −; 9)	GR	A	249.797 16	3.0	2673
*10349	Q (1, 8 ; 24)	GR	(0, 8 ; 24)	GR	A	249.798 14	1.7	2772
10350	Q (2, 3 ; 9)	GR	(1, 2 +; 9)	GR	A	249.798 14	−5.2	2772



Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*10351	Q (2, 3 ; 8)	GR	(1, 2 ; 8)	GR	A	249.812 66	0.7	4356
*10352	Q (1, 9 ; 34)	GR	(0, 8 ; 34)	GR	A	249.814 92	0.6	1386
*10353	Q (1, −2 ; 28)	GR	(0, −1 ; 28)	GR	E	249.819 04	0.1	2772
*10354	Q (2, 3 ; 7)	GR	(1, 2 ; 7)	GR	A	249.826 23	−0.1	3663
*10355	R (1, 6 ; 13)	GR	(0, 5 ; 12)	GR	A	249.832 75	1.0	8514
*10356	Q (2, 3 ; 6)	GR	(1, 2 ; 6)	GR	A	249.838 30	−0.9	3465
*10357	Q (2, 3 ; 5)	GR	(1, 2 ; 5)	GR	A	249.848 87	0.2	2673
*10358	Q (2, 3 ; 4)	GR	(1, 2 ; 4)	GR	A	249.857 89	0.2	2178
*10359	Q (2, 3 ; 3)	GR	(1, 2 ; 3)	GR	A	249.865 04	−0.1	1782
*10360	R (1, 4 ; 20)	GR	(0, 3 ; 19)	GR	E	249.877 42	0.7	6138
10361	P (1, 9 ; 16)	GR	(0, 8 ; 17)	GR	E	249.903 33	2.9	8613
*10362	Q (1, −2 ; 29)	GR	(0, −1 ; 29)	GR	E	249.932 18	0.7	2376
*10363	Q (1, 8 ; 23)	GR	(0, 8 ; 23)	GR	A	249.934 59	0.4	1980
*10364	R (1, 3 ; 20)	GR	(0, 4 $^{+}$; 19)	GR	A	249.956 96	2.7	4554
10365	R (1, 3 ; 20)	GR	(0, 4 $^{-}$; 19)	GR	A	249.956 96	−5.5	4554
*10366	R (2, −6 ; 17)	GR	(1, −5 ; 16)	GR	E	249.996 48	0.0	6237
10367	Q (1, 9 ; 33)	GR	(0, 8 ; 33)	GR	A	250.011 97	3.7	3564
*10368	R (1, −2 ; 27)	GR	(0, −3 ; 26)	GR	E	250.011 97	−0.9	3564
*10369	P (1, −1 ; 11)	GR	(0, −2 ; 12)	GR	E	250.036 76	−0.4	5643
*10370	P (1, −8 ; 23)	GR	(0, −7 ; 24)	GR	E	250.039 43	−0.2	1584
*10371	P (2, 5 ; 12)	GR	(1, 4 ; 13)	GR	A	250.046 40	0.4	2079
*10372	Q (1, −2 ; 30)	GR	(0, −1 ; 30)	GR	E	250.057 38	−1.1	1980
*10373	Q (1, 8 ; 22)	GR	(0, 8 ; 22)	GR	A	250.064 64	−0.4	1584
*10374	R (3, 2 ; 9)	GR	(3, 1 ; 8)	GR	E	250.180 49	0.4	5049
*10375	Q (1, 8 ; 21)	GR	(0, 8 ; 21)	GR	A	250.188 43	−0.1	2178
*10376	Q (1, −2 ; 31)	GR	(0, −1 ; 31)	GR	E	250.195 07	0.1	1782
*10377	Q (1, 9 ; 32)	GR	(0, 8 ; 32)	GR	A	250.197 80	−0.6	1881
*10378	R (3, 1 ; 7)	GR	(3, 0 $^{+}$; 6)	GR	A	250.234 08	−0.9	2574
*10379	P (2, 1 ; 16)	GR	(1, 2 ; 17)	GR	E	250.238 56	−1.4	1386
*10380	R (3, −1 ; 8)	GR	(3, 0 ; 7)	GR	E	250.293 93	−0.1	4158
*10381	Q (1, 8 ; 20)	GR	(0, 8 ; 20)	GR	A	250.306 02	1.4	2079
10382	P (1, −1 ; 17)	GR	(0, 0 ; 18)	GR	E	250.369 56	−0.8	4158
*10383	Q (1, 9 ; 31)	GR	(0, 8 ; 31)	GR	A	250.374 74	0.9	2079
*10384	R (1, 5 ; 12)	GR	(0, 4 ; 11)	GR	E	250.379 13	0.3	8415
*10385	Q (1, 8 ; 19)	GR	(0, 8 ; 19)	GR	A	250.417 24	0.0	2079
*10386	R (4, −1 ; 6)	GR	(3, −2 ; 5)	GR	E	250.431 39	0.8	1287
*10387	P (1, 3 ; 14)	GR	(0, 2 ; 15)	GR	E	250.450 75	−0.2	2574
*10388	Q (1, 8 ; 18)	GR	(0, 8 ; 18)	GR	A	250.522 61	0.4	1683
*10389	Q (1, 9 ; 30)	GR	(0, 8 ; 30)	GR	A	250.542 45	1.3	2871
*10390	R (1, 3 ; 18)	GR	(0, 4 ; 17)	GR	E	250.551 55	1.8	2178
*10391	Q (1, 8 ; 17)	GR	(0, 8 ; 17)	GR	A	250.622 04	−0.1	1584
*10392	R (1, 5 ; 9)	GR	(0, 4 ; 8)	GR	A	250.675 89	0.0	8415
*10393	P (1, 2 ; 7)	GR	(0, 1 ; 8)	GR	E	250.691 73	0.8	5049
10394	Q (1, 9 ; 29)	GR	(0, 8 ; 29)	GR	A	250.700 10	−4.6	3861
*10395	Q (1, 8 ; 16)	GR	(0, 8 ; 16)	GR	A	250.715 86	1.6	1584
*10396	R (2, 0 ; 18)	GR	(1, −1 ; 17)	GR	E	250.784 45	0.5	3465
*10397	Q (1, 8 ; 15)	GR	(0, 8 ; 15)	GR	A	250.803 77	0.4	1287
*10398	R (1, −4 ; 8)	GR	(0, −3 ; 7)	GR	E	250.814 79	0.1	7821
*10399	R (1, 4 ; 8)	GR	(0, 5 ; 7)	GR	A	250.847 95	−0.2	3564
*10400	Q (1, 9 ; 28)	GR	(0, 8 ; 28)	GR	A	250.850 34	−0.5	3465
10401	Q (1, 8 ; 14)	GR	(0, 8 ; 14)	GR	A	250.886 57	6.1	5742
*10402	R (1, 0 ; 29)	GR	(0, −1 ; 28)	GR	E	250.960 07	1.6	990
*10403	Q (1, 8 ; 13)	GR	(0, 8 ; 13)	GR	A	250.962 71	−1.4	792
*10404	R (1, 7 ; 24)	GR	(0, 8 ; 23)	GR	A	250.964 74	0.2	1089
*10405	R (1, 2 ; 4)	GR	(0, 3 ; 3)	GR	E	250.967 36	2.5	594
*10406	Q (1, 9 ; 27)	GR	(0, 8 ; 27)	GR	A	250.991 41	0.1	3465
*10407	R (1, 1 $^{-}$; 16)	GR	(0, 0 $^{+}$; 15)	GR	A	251.082 69	0.9	7128
*10408	Q (1, 9 ; 26)	GR	(0, 8 ; 26)	GR	A	251.124 23	0.1	3960
*10409	Q (1, 9 ; 25)	GR	(0, 8 ; 25)	GR	A	251.249 06	−0.8	4158
*10410	R (1, −7 ; 12)	GR	(0, −6 ; 11)	GR	E	251.290 46	−2.0	7364
*10411	R (1, 4 ; 21)	GR	(0, 3 ; 20)	GR	E	251.291 90	−1.9	5445
*10412	R (1, 6 ; 14)	GR	(0, 5 ; 13)	GR	A	251.309 72	0.8	8514
*10413	P (1, 7 ; 31)	GR	(0, 6 ; 32)	GR	A	251.332 02	0.0	891
*10414	R (1, −2 ; 28)	GR	(0, −3 ; 27)	GR	E	251.365 22	1.0	1937
*10415	Q (1, 9 ; 24)	GR	(0, 8 ; 24)	GR	A	251.366 19	−1.0	4851
10416	R (1, 3 ; 21)	GR	(0, 4 $^{+}$; 20)	GR	A	251.435 20	10.0	3960
10417	R (1, 3 ; 21)	GR	(0, 4 $^{-}$; 20)	GR	A	251.435 20	−9.3	3960
*10418	Q (1, 9 ; 23)	GR	(0, 8 ; 23)	GR	A	251.476 12	0.8	5049
*10419	R (2, −6 ; 18)	GR	(1, −5 ; 17)	GR	E	251.497 65	−0.7	5841
*10420	P (1, 9 ; 15)	GR	(0, 8 ; 16)	GR	E	251.539 26	−0.5	1386
10421	P (1, 0 $^{+}$; 18)	GR	(0, 1 $^{-}$; 19)	GR	A	251.559 52	−6.2	8316
*10422	Q (1, 9 ; 22)	GR	(0, 8 ; 22)	GR	A	251.578 72	0.0	5049
*10423	P (2, 5 ; 11)	GR	(1, 4 ; 12)	GR	A	251.665 88	0.8	2079
*10424	Q (1, 9 ; 21)	GR	(0, 8 ; 21)	GR	A	251.674 49	1.4	5544
*10425	P (1, −1 ; 10)	GR	(0, −2 ; 11)	GR	E	251.678 90	−0.4	5247

Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*10426	P (1, −8 ; 22)	GR	(0, −7 ; 23)	GR	E	251.690 42	−0.7	1683
*10427	R (3, 2 ; 10)	GR	(3, 1 ; 9)	GR	E	251.727 98	1.4	5148
*10428	Q (1, 9 ; 20)	GR	(0, 8 ; 20)	GR	A	251.763 70	−0.5	5643
10429	R (3, 1 ; 8)	GR	(3, 0 $^{+}$; 7)	GR	A	251.785 01	3.6	5049
*10430	P (1, −1 ; 16)	GR	(0, 0 ; 17)	GR	E	251.811 56	−0.3	4158
*10431	R (3, −1 ; 9)	GR	(3, 0 ; 8)	GR	E	251.842 39	−0.1	4455
*10432	Q (1, 9 ; 19)	GR	(0, 8 ; 19)	GR	A	251.846 56	0.1	6732
*10433	P (2, 1 ; 15)	GR	(1, 2 ; 16)	GR	E	251.850 49	0.3	2079
*10434	R (1, 5 ; 13)	GR	(0, 4 ; 12)	GR	E	251.919 32	0.1	8118
*10435	Q (1, 9 ; 18)	GR	(0, 8 ; 18)	GR	A	251.923 24	0.3	5841
*10436	R (1, 3 ; 19)	GR	(0, 4 ; 18)	GR	E	251.954 42	−0.5	1980
*10437	R (4, −1 ; 7)	GR	(3, −2 ; 6)	GR	E	251.983 81	1.4	1386
*10438	Q (1, 9 ; 17)	GR	(0, 8 ; 17)	GR	A	251.994 07	−0.2	6138
*10439	Q (1, 9 ; 16)	GR	(0, 8 ; 16)	GR	A	252.059 31	−0.3	6336
*10440	Q (1, 9 ; 15)	GR	(0, 8 ; 15)	GR	A	252.119 25	−0.4	6435
*10441	P (1, 3 ; 13)	GR	(0, 2 ; 14)	GR	E	252.150 26	−0.8	2574
*10442	Q (1, 9 ; 14)	GR	(0, 8 ; 14)	GR	A	252.174 05	−0.1	6435
*10443	R (1, 5 ; 10)	GR	(0, 4 ; 9)	GR	A	252.202 57	−0.6	8217
*10444	Q (1, 9 ; 13)	GR	(0, 8 ; 13)	GR	A	252.223 92	−0.7	6237
*10445	Q (1, 9 ; 12)	GR	(0, 8 ; 12)	GR	A	252.269 14	0.5	6039
*10446	P (1, 2 ; 6)	GR	(0, 1 ; 7)	GR	E	252.296 49	0.9	4653
*10447	R (2, 0 ; 19)	GR	(1, −1 ; 18)	GR	E	252.299 20	0.6	3267
*10448	Q (1, 9 ; 11)	GR	(0, 8 ; 11)	GR	A	252.309 89	−0.2	5742
*10449	Q (1, 9 ; 10)	GR	(0, 8 ; 10)	GR	A	252.346 37	−0.4	5346
*10450	R (1, −4 ; 9)	GR	(0, −3 ; 8)	GR	E	252.350 91	0.0	8217
*10451	Q (1, 9 ; 9)	GR	(0, 8 ; 9)	GR	A	252.378 85	−0.1	3960
*10452	R (1, 4 ; 9)	GR	(0, 5 ; 8)	GR	A	252.391 28	−0.1	3960
*10453	R (1, 2 ; 5)	GR	(0, 3 ; 4)	GR	E	252.520 98	−1.8	744
*10454	R (1, 1 $^{-}$; 17)	GR	(0, 0 $^{+}$; 16)	GR	A	252.643 42	0.9	6336
*10455	R (1, 4 ; 22)	GR	(0, 3 ; 21)	GR	E	252.692 42	0.6	5346
*10456	R (1, −2 ; 29)	GR	(0, −3 ; 28)	GR	E	252.703 21	−0.1	2079
*10457	R (1, 6 ; 15)	GR	(0, 5 ; 14)	GR	A	252.773 82	0.5	8514
*10458	R (1, −2 ; 2)	GR	(0, −1 ; 1)	GR	E	252.790 25	−0.3	4752
*10459	R (1, −7 ; 13)	GR	(0, −6 ; 12)	GR	E	252.793 93	1.0	7722
*10460	R (1, 8 ; 8)	GR	(0, 7 ; 7)	GR	E	252.868 44	0.0	8019
*10461	R (1, 3 $^{-}$; 22)	GR	(0, 4 $^{+}$; 21)	GR	A	252.907 05	1.5	2871
*10462	R (1, 3 $^{+}$; 22)	GR	(0, 4 $^{-}$; 21)	GR	A	252.908 27	−1.2	2475
*10463	P (1, 7 ; 30)	GR	(0, 6 ; 31)	GR	A	252.989 22	0.1	1980
*10464	R (2, −6 ; 19)	GR	(1, −5 ; 18)	GR	E	252.991 66	0.0	5742
*10465	P (1, 9 ; 14)	GR	(0, 8 ; 15)	GR	E	253.172 47	−0.2	1584
*10466	R (3, 2 ; 11)	GR	(3, 1 ; 10)	GR	E	253.273 25	0.7	5445
*10467	P (1, −1 ; 15)	GR	(0, 0 ; 16)	GR	E	253.275 38	0.5	4356
*10468	P (2, 5 ; 10)	GR	(1, 4 ; 11)	GR	A	253.277 76	−0.3	2376
*10469	P (1, −1 ; 9)	GR	(0, −2 ; 10)	GR	E	253.311 05	0.0	5247
*10470	R (3, 1 ; 9)	GR	(3, 0 $^{+}$; 8)	GR	A	253.331 24	−2.5	3069
*10471	R (1, 3 ; 20)	GR	(0, 4 ; 19)	GR	E	253.339 70	0.7	2772
*10472	P (1, −8 ; 21)	GR	(0, −7 ; 22)	GR	E	253.339 70	−1.6	2772
*10473	Q (1, −6 ; 35)	GR	(0, −5 ; 35)	GR	E	253.370 16	−0.1	1089
*10474	R (3, −1 ; 10)	GR	(3, 0 ; 9)	GR	E	253.388 60	0.2	5148
*10475	P (1, 0 $^{+}$; 17)	GR	(0, 1 $^{-}$; 18)	GR	A	253.396 30	−0.7	5940
*10476	P (2, 1 ; 14)	GR	(1, 2 ; 15)	GR	E	253.459 26	−0.3	2079
*10477	R (1, 5 ; 14)	GR	(0, 4 ; 13)	GR	E	253.461 42	0.9	8019
*10478	R (4, −1 ; 8)	GR	(3, −2 ; 7)	GR	E	253.534 19	−1.0	1881
*10479	Q (1, −6 ; 34)	GR	(0, −5 ; 34)	GR	E	253.623 08	−1.5	792
*10480	R (1, 5 ; 11)	GR	(0, 4 ; 10)	GR	A	253.723 53	−0.2	8118
10481	R (2, 0 ; 20)	GR	(1, −1 ; 19)	GR	E	253.810 57	5.7	6116
*10482	P (1, 3 ; 12)	GR	(0, 2 ; 13)	GR	E	253.835 64	0.7	2574
*10483	Q (1, −6 ; 33)	GR	(0, −5 ; 33)	GR	E	253.864 36	2.5	1386
*10484	R (1, −4 ; 10)	GR	(0, −3 ; 9)	GR	E	253.883 41	0.5	7920
*10485	P (1, 2 ; 5)	GR	(0, 1 ; 6)	GR	E	253.896 90	0.6	4158
*10486	R (1, 4 ; 10)	GR	(0, 5 ; 9)	GR	A	253.933 42	1.4	5841
*10487	R (1, 3 ; 3)	GR	(0, 2 ; 2)	GR	A	253.945 90	−1.0	8613
*10488	R (1, −2 ; 30)	GR	(0, −3 ; 29)	GR	E	254.025 83	−0.9	1881
*10489	R (1, 2 ; 6)	GR	(0, 3 ; 5)	GR	E	254.070 79	0.2	1683
*10490	R (1, 4 ; 23)	GR	(0, 3 ; 22)	GR	E	254.077 19	−0.3	5445
*10491	Q (1, −6 ; 32)	GR	(0, −5 ; 32)	GR	E	254.093 19	1.5	1386
*10492	R (1, 1 $^{-}$; 18)	GR	(0, 0 $^{+}$; 17)	GR	A	254.207 83	1.0	6237
*10493	R (1, 6 ; 16)	GR	(0, 5 ; 15)	GR	A	254.224 11	0.4	8316
*10494	R (1, −7 ; 14)	GR	(0, −6 ; 13)	GR	E	254.288 95	0.5	7623
*10495	Q (1, −6 ; 31)	GR	(0, −5 ; 31)	GR	E	254.309 92	−0.7	1683
*10496	R (1, −2 ; 3)	GR	(0, −1 ; 2)	GR	E	254.352 44	−0.6	4950
*10497	R (1, 3 $^{-}$; 23)	GR	(0, 4 $^{+}$; 22)	GR	A	254.373 14	0.9	2871
*10498	R (1, 3 $^{+}$; 23)	GR	(0, 4 $^{-}$; 22)	GR	A	254.375 50	1.1	2673
*10499	R (1, 8 ; 9)	GR	(0, 7 ; 8)	GR	E	254.404 06	0.5	7821
*10500	R (2, −6 ; 20)	GR	(1, −5 ; 19)	GR	E	254.477 97	0.1	5841



Index	upper state				lower state					$\tilde{\nu}$	$\delta\tilde{\nu}\cdot10^4$	Int.
	T	$(n,\ K\ ;\ J)$	v		$(n,\ K\ ;\ J)$	v		σ		/cm^{-1}	/cm^{-1}	/a.u.
*10501	Q	(1, −6 ; 30)	GR	←	(0, −5 ; 30)	GR		E		254.515 55	−0.5	1782
*10502	R	(2, 3 ; 3)	GR	←	(1, 2 ; 2)	GR		A		254.576 25	0.2	3069
*10503	P	(1, 7 ; 29)	GR	←	(0, 6 ; 30)	GR		A		254.646 22	−0.5	1089
*10504	R	(1, 3 ; 21)	GR	←	(0, 4 ; 20)	GR		E		254.706 25	0.1	1485
*10505	Q	(1, −6 ; 29)	GR	←	(0, −5 ; 29)	GR		E		254.710 19	−0.4	2178
*10506	P	(1, −1 ; 14)	GR	←	(0, 0 ; 15)	GR		E		254.759 59	0.3	4554
*10507	P	(1, 9 ; 13)	GR	←	(0, 8 ; 14)	GR		E		254.802 75	0.1	1089
*10508	R	(3, 2 ; 12)	GR	←	(3, 1 ; 11)	GR		E		254.816 38	0.1	5148
10509	R	(3, 1 ; 10)	GR	←	(3, 0 $^+$; 9)	GR		A		254.876 42	−4.4	3069
*10510	P	(2, 5 ; 9)	GR	←	(1, 4 ; 10)	GR		A		254.883 14	−1.3	1782
*10511	Q	(1, −6 ; 28)	GR	←	(0, −5 ; 28)	GR		E		254.894 40	−1.8	2574
*10512	R	(3, −1 ; 11)	GR	←	(3, 0 ; 10)	GR		E		254.932 50	0.1	4653
*10513	P	(1, −1 ; 8)	GR	←	(0, −2 ; 9)	GR		E		254.934 45	0.8	6237
*10514	P	(1, −8 ; 20)	GR	←	(0, −7 ; 21)	GR		E		254.987 42	−0.5	1683
*10515	R	(1, 5 ; 15)	GR	←	(0, 4 ; 14)	GR		E		255.006 08	−0.1	8415
*10516	P	(2, 1 ; 13)	GR	←	(1, 2 ; 14)	GR		E		255.065 28	0.7	1881
*10517	Q	(1, −6 ; 27)	GR	←	(0, −5 ; 27)	GR		E		255.068 44	−0.2	2772
*10518	R	(4, −1 ; 9)	GR	←	(3, −2 ; 8)	GR		E		255.082 47	0.3	1980
*10519	P	(1, 0 $^+$; 16)	GR	←	(0, 1 $^-$; 17)	GR		A		255.224 56	0.6	6435
*10520	Q	(1, −6 ; 26)	GR	←	(0, −5 ; 26)	GR		E		255.232 93	0.2	3069
*10521	R	(1, 5 ; 12)	GR	←	(0, 4 ; 11)	GR		A		255.238 45	0.3	8019
*10522	R	(2, 0 ; 21)	GR	←	(1, −1 ; 20)	GR		E		255.316 75	0.3	2574
10523	R	(1, −2 ; 31)	GR	←	(0, −3 ; 30)	GR		E		255.332 15	−4.0	2079
*10524	Q	(1, −6 ; 25)	GR	←	(0, −5 ; 25)	GR		E		255.388 00	0.8	3366
*10525	R	(1, −4 ; 11)	GR	←	(0, −3 ; 10)	GR		E		255.412 27	0.5	8118
*10526	R	(1, 4 ; 24)	GR	←	(0, 3 ; 23)	GR		E		255.445 54	−0.4	4851
*10527	R	(1, 4 ; 11)	GR	←	(0, 5 ; 10)	GR		A		255.474 66	0.1	5643
*10528	P	(1, 2 ; 4)	GR	←	(0, 1 ; 5)	GR		E		255.492 99	0.6	3564
*10529	R	(1, 3 ; 4)	GR	←	(0, 2 ; 3)	GR		A		255.503 09	0.4	8910
*10530	P	(1, 3 ; 11)	GR	←	(0, 2 ; 12)	GR		E		255.507 11	0.8	2772
*10531	Q	(1, −6 ; 24)	GR	←	(0, −5 ; 24)	GR		E		255.534 08	0.3	3861
*10532	R	(1, 2 ; 7)	GR	←	(0, 3 ; 6)	GR		E		255.615 95	0.8	1881
*10533	R	(1, 6 ; 17)	GR	←	(0, 5 ; 16)	GR		A		255.659 68	0.0	8217
*10534	Q	(1, −6 ; 23)	GR	←	(0, −5 ; 23)	GR		E		255.671 51	0.7	4059
*10535	R	(1, −7 ; 15)	GR	←	(0, −6 ; 14)	GR		E		255.775 66	3.4	8118
10536	R	(1, 1 $^-$; 19)	GR	←	(0, 0 $^+$; 18)	GR		A		255.775 66	−8.8	8118
*10537	Q	(1, −6 ; 22)	GR	←	(0, −5 ; 22)	GR		E		255.800 60	0.4	4356
*10538	R	(1, 3 $^-$; 24)	GR	←	(0, 4 $^+$; 23)	GR		A		255.832 82	−0.6	2673
*10539	R	(1, 3 $^+$; 24)	GR	←	(0, 4 $^-$; 23)	GR		A		255.836 58	1.4	2277
*10540	R	(1, −2 ; 4)	GR	←	(0, −1 ; 3)	GR		E		255.910 67	0.3	5247
*10541	Q	(1, −6 ; 21)	GR	←	(0, −5 ; 21)	GR		E		255.921 79	−0.1	4653
*10542	R	(1, 8 ; 10)	GR	←	(0, 7 ; 9)	GR		E		255.936 55	2.2	7821
*10543	R	(2, −6 ; 21)	GR	←	(1, −5 ; 20)	GR		E		255.956 14	0.1	5148
*10544	Q	(1, −6 ; 20)	GR	←	(0, −5 ; 20)	GR		E		256.035 31	0.8	4950
*10545	R	(1, 3 ; 22)	GR	←	(0, 4 ; 21)	GR		E		256.053 34	−2.4	1287
*10546	R	(2, 3 ; 4)	GR	←	(1, 2 ; 3)	GR		A		256.139 19	0.1	3663
*10547	Q	(1, −6 ; 19)	GR	←	(0, −5 ; 19)	GR		E		256.141 47	0.4	5346
*10548	Q	(1, −6 ; 18)	GR	←	(0, −5 ; 18)	GR		E		256.240 56	−0.4	5445
*10549	P	(1, −1 ; 13)	GR	←	(0, 0 ; 14)	GR		E		256.263 07	1.0	4851
*10550	P	(1, 7 ; 28)	GR	←	(0, 6 ; 29)	GR		A		256.303 26	0.1	1386
*10551	Q	(1, −6 ; 17)	GR	←	(0, −5 ; 17)	GR		E		256.332 77	0.4	5742
*10552	R	(3, 2 ; 13)	GR	←	(3, 1 ; 12)	GR		E		256.357 24	−0.1	5247
*10553	Q	(1, −6 ; 16)	GR	←	(0, −5 ; 16)	GR		E		256.418 71	2.0	6930
*10554	P	(1, 9 ; 12)	GR	←	(0, 8 ; 13)	GR		E		256.429 67	0.3	1089
*10555	R	(3, −1 ; 12)	GR	←	(3, 0 ; 11)	GR		E		256.474 27	−0.1	4257
*10556	P	(2, 5 ; 8)	GR	←	(1, 4 ; 9)	GR		A		256.482 79	0.3	1584
*10557	Q	(1, −6 ; 15)	GR	←	(0, −5 ; 15)	GR		E		256.497 80	0.5	5742
*10558	P	(1, −1 ; 7)	GR	←	(0, −2 ; 8)	GR		E		256.550 01	0.3	5247
*10559	R	(1, 5 ; 16)	GR	←	(0, 4 ; 15)	GR		E		256.554 36	−0.8	8118
*10560	Q	(1, −6 ; 14)	GR	←	(0, −5 ; 14)	GR		E		256.571 14	0.0	5841
*10561	R	(4, −1 ; 10)	GR	←	(3, −2 ; 9)	GR		E		256.628 57	−0.2	2079
*10562	P	(1, −8 ; 19)	GR	←	(0, −7 ; 20)	GR		E		256.633 18	0.6	1683
*10563	Q	(1, −6 ; 13)	GR	←	(0, −5 ; 13)	GR		E		256.638 57	−0.1	6039
*10564	P	(2, 1 ; 12)	GR	←	(1, 2 ; 13)	GR		E		256.668 34	0.0	1881
*10565	Q	(1, −6 ; 12)	GR	←	(0, −5 ; 12)	GR		E		256.700 31	0.3	6039
*10566	R	(1, 5 ; 13)	GR	←	(0, 4 ; 12)	GR		A		256.746 86	−0.9	8217
*10567	Q	(1, −6 ; 11)	GR	←	(0, −5 ; 11)	GR		E		256.756 64	−0.5	5445
*10568	R	(1, 4 ; 25)	GR	←	(0, 3 ; 24)	GR		E		256.796 86	−0.9	4257
*10569	Q	(1, −6 ; 10)	GR	←	(0, −5 ; 10)	GR		E		256.807 33	−2.6	5462
*10570	R	(2, 0 ; 22)	GR	←	(1, −1 ; 21)	GR		E		256.819 35	0.7	2574
*10571	Q	(1, −6 ; 9)	GR	←	(0, −5 ; 9)	GR		E		256.853 45	0.1	5247
*10572	Q	(1, −6 ; 8)	GR	←	(0, −5 ; 8)	GR		E		256.894 30	−0.4	4851
*10573	Q	(1, −6 ; 7)	GR	←	(0, −5 ; 7)	GR		E		256.930 25	−0.3	4059
*10574	R	(1, −4 ; 12)	GR	←	(0, −3 ; 11)	GR		E		256.937 81	0.5	8019
*10575	Q	(1, −6 ; 6)	GR	←	(0, −5 ; 6)	GR		E		256.961 69	0.2	4950

Index	upper state				lower state					$\tilde{\nu}$	$\delta\tilde{\nu}\cdot10^4$	Int.
	T	$(n,\ K\ ;\ J)$	v		$(n,\ K\ ;\ J)$	v		σ		/cm^{-1}	/cm^{-1}	/a.u.
*10576	R	(1, 4 ; 12)	GR	←	(0, 5 ; 11)	GR		A		257.016 13	−0.1	5841
*10577	P	(1, 0 $^+$; 15)	GR	←	(0, 1 $^-$; 16)	GR		A		257.043 75	0.6	6336
*10578	R	(1, 3 ; 5)	GR	←	(0, 2 ; 4)	GR		A		257.055 85	0.9	9405
*10579	R	(1, 6 ; 18)	GR	←	(0, 5 ; 17)	GR		A		257.079 47	0.1	8118
*10580	P	(1, 2 ; 3)	GR	←	(0, 1 ; 4)	GR		E		257.084 75	0.0	2673
*10581	R	(1, 2 ; 8)	GR	←	(0, 3 ; 7)	GR		E		257.156 25	0.7	2376
*10582	P	(1, 3 ; 10)	GR	←	(0, 2 ; 11)	GR		E		257.165 07	0.5	2871
*10583	R	(1, −7 ; 16)	GR	←	(0, −6 ; 15)	GR		E		257.252 46	−0.4	7524
*10584	R	(1, 3 $^-$; 25)	GR	←	(0, 4 $^+$; 24)	GR		A		257.286 18	2.0	2079
*10585	R	(1, 3 $^+$; 25)	GR	←	(0, 4 $^-$; 24)	GR		A		257.291 41	−1.2	2574
*10586	R	(1, 1 $^-$; 20)	GR	←	(0, 0 $^+$; 19)	GR		A		257.350 53	0.5	5544
*10587	R	(1, 3 ; 23)	GR	←	(0, 4 ; 22)	GR		E		257.381 25	1.5	1485
*10588	R	(2, −6 ; 22)	GR	←	(1, −5 ; 21)	GR		E		257.425 72	0.7	5148
*10589	R	(1, −2 ; 5)	GR	←	(0, −1 ; 4)	GR		E		257.464 69	−0.9	5316
*10590	R	(1, 8 ; 11)	GR	←	(0, 7 ; 10)	GR		E		257.466 16	−0.2	7045
*10591	R	(2, 3 ; 5)	GR	←	(1, 2 ; 4)	GR		A		257.700 22	−0.4	3267
*10592	P	(1, −1 ; 12)	GR	←	(0, 0 ; 13)	GR		E		257.783 78	−0.3	4950
*10593	R	(3, 2 ; 14)	GR	←	(3, 1 ; 13)	GR		E		257.895 86	0.7	4950
*10594	P	(1, 7 ; 27)	GR	←	(0, 6 ; 28)	GR		A		257.959 94	2.4	4059
*10595	R	(3, 1 $^+$; 12)	GR	←	(3, 0 $^+$; 11)	GR		A		257.959 94	−0.9	4059
*10596	R	(3, −1 ; 13)	GR	←	(3, 0 ; 12)	GR		E		258.013 60	0.4	4257
*10597	P	(1, 9 ; 11)	GR	←	(0, 8 ; 12)	GR		E		258.053 05	1.4	495
*10598	P	(2, 5 ; 7)	GR	←	(1, 4 ; 8)	GR		A		258.077 32	1.0	1386
*10599	R	(1, 5 ; 17)	GR	←	(0, 4 ; 16)	GR		E		258.106 96	0.0	7722
*10600	R	(1, 4 ; 26)	GR	←	(0, 3 ; 25)	GR		E		258.130 01	0.9	3762
*10601	P	(1, −1 ; 6)	GR	←	(0, −2 ; 7)	GR		E		258.158 69	0.4	5148
*10602	R	(4, −1 ; 11)	GR	←	(3, −2 ; 10)	GR		E		258.172 53	0.0	2178
*10603	R	(1, 5 ; 14)	GR	←	(0, 4 ; 13)	GR		A		258.248 77	0.1	7920
*10604	P	(2, 1 ; 11)	GR	←	(1, 2 ; 12)	GR		E		258.268 63	−0.2	1683
*10605	P	(1, −8 ; 18)	GR	←	(0, −7 ; 19)	GR		E		258.276 53	−0.2	2277
*10606	R	(2, 0 ; 23)	GR	←	(1, −1 ; 22)	GR		E		258.317 54	0.3	2376
*10607	R	(1, −4 ; 13)	GR	←	(0, −3 ; 12)	GR		E		258.460 17	−0.2	8118
*10608	R	(1, 6 ; 19)	GR	←	(0, 5 ; 18)	GR		A		258.482 53	−0.3	7722
*10609	P	(1, 4 ; 25)	GR	←	(0, 3 $^-$; 26)	GR		A		258.509 99	0.9	0
*10610	R	(1, 4 ; 13)	GR	←	(0, 5 ; 12)	GR		A		258.558 53	0.8	5940
*10611	R	(1, 3 ; 6)	GR	←	(0, 2 $^+$; 5)	GR		A		258.603 07	−0.1	7920
*10612	R	(1, 3 ; 6)	GR	←	(0, 2 $^-$; 5)	GR		A		258.605 59	1.1	8712
*10613	P	(1, 2 ; 2)	GR	←	(0, 1 ; 3)	GR		E		258.672 15	−2.1	1188
10614	R	(1, 3 ; 24)	GR	←	(0, 4 ; 23)	GR		E		258.688 78	5.1	792
*10615	R	(1, 2 ; 9)	GR	←	(0, 3 ; 8)	GR		E		258.691 51	−0.2	3168
*10616	R	(1, −7 ; 17)	GR	←	(0, −6 ; 16)	GR		E		258.719 72	0.0	7128
*10617	R	(1, 3 $^-$; 26)	GR	←	(0, 4 $^+$; 25)	GR		A		258.732 54	0.0	1881
*10618	R	(1, 3 $^+$; 26)	GR	←	(0, 4 $^-$; 25)	GR		A		258.740 50	0.8	1980
*10619	P	(1, 4 ; 25)	GR	←	(0, 3 $^+$; 26)	GR		A		258.751 62	−0.1	693
*10620	P	(1, 3 ; 9)	GR	←	(0, 2 ; 10)	GR		E		258.810 63	0.9	2673
*10621	P	(1, 0 $^+$; 14)	GR	←	(0, 1 $^-$; 15)	GR		A		258.852 93	1.6	7128
*10622	R	(2, −6 ; 23)	GR	←	(1, −5 ; 22)	GR		E		258.886 08	−1.0	4554
*10623	R	(1, 1 $^-$; 21)	GR	←	(0, 0 $^+$; 20)	GR		A		258.930 58	1.1	5445
*10624	R	(1, 8 ; 12)	GR	←	(0, 7 ; 11)	GR		E		258.993 75	−0.3	7623
*10625	R	(1, −2 ; 6)	GR	←	(0, −1 ; 5)	GR		E		259.015 41	−0.5	5445
*10626	R	(2, 3 ; 6)	GR	←	(1, 2 ; 5)	GR		A		259.259 44	1.0	3465
*10627	P	(1, −1 ; 11)	GR	←	(0, 0 ; 12)	GR		E		259.320 05	0.8	5445
*10628	R	(3, 2 ; 15)	GR	←	(3, 1 ; 14)	GR		E		259.432 09	0.6	5049
*10629	R	(1, 4 ; 27)	GR	←	(0, 3 ; 26)	GR		E		259.444 23	−0.3	3564
*10630	R	(3, 1 $^+$; 13)	GR	←	(3, 0 $^+$; 12)	GR		A		259.498 27	0.2	3465
*10631	R	(3, −1 ; 14)	GR	←	(3, 0 ; 13)	GR		E		259.550 55	1.1	4257
*10632	P	(1, 7 ; 26)	GR	←	(0, 6 ; 27)	GR		A		259.615 53	0.4	1881
*10633	R	(1, 5 ; 18)	GR	←	(0, 4 ; 17)	GR		E		259.664 66	0.9	7821
*10634	P	(1, 9 ; 10)	GR	←	(0, 8 ; 11)	GR		E		259.672 71	−1.0	2376
10635	R	(4, −1 ; 12)	GR	←	(3, −2 ; 11)	GR		E		259.713 74	−4.4	5445
*10636	R	(1, 5 ; 15)	GR	←	(0, 4 ; 14)	GR		A		259.743 61	0.4	8316
*10637	P	(1, −1 ; 5)	GR	←	(0, −2 ; 6)	GR		E		259.761 11	0.7	4752
*10638	R	(2, 0 ; 24)	GR	←	(1, −1 ; 23)	GR		E		259.811 10	−0.8	2178
*10639	P	(2, 1 ; 10)	GR	←	(1, 2 ; 11)	GR		E		259.866 26	−1.0	2088
*10640	R	(1, 6 ; 20)	GR	←	(0, 5 ; 19)	GR		A		259.868 07	−0.5	7821
*10641	P	(1, −8 ; 17)	GR	←	(0, −7 ; 18)	GR		E		259.917 69	−0.2	1782
*10642	R	(1, 3 ; 25)	GR	←	(0, 4 ; 24)	GR		E		259.974 52	−0.1	792
*10643	R	(1, −4 ; 14)	GR	←	(0, −3 ; 13)	GR		E		259.979 81	0.4	8118
*10644	P	(1, 4 ; 24)	GR	←	(0, 3 $^-$; 25)	GR		A		260.080 68	−0.4	990
*10645	R	(1, 4 ; 14)	GR	←	(0, 5 ; 13)	GR		A		260.102 53	0.5	6336
*10646	R	(1, 3 ; 7)	GR	←	(0, 2 $^+$; 6)	GR		A		260.145 91	0.3	7920
*10647	R	(1, 3 ; 7)	GR	←	(0, 2 $^-$; 6)	GR		A		260.150 66	−0.2	8217
*10648	R	(1, 3 $^-$; 27)	GR	←	(0, 4 $^+$; 26)	GR		A		260.172 02	0.2	2079
*10649	R	(1, −7 ; 18)	GR	←	(0, −6 ; 17)	GR		E		260.176 51	0.2	7128
*10650	R	(1, 3 $^+$; 27)	GR	←	(0, 4 $^-$; 26)	GR		A		260.183 04	−0.5	2178



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a. .
*10651	R (1, 2 ; 10) GR	←	(0, 3 ; 9) GR	E	260.221 72	0.3	2871
*10652	P (1, 4 ; 24) GR	←	(0, 3 +; 25) GR	A	260.273 03	−0.4	5742
*10653	R (2, −6 ; 24) GR	←	(1, −5 ; 23) GR	E	260.336 94	0.8	5148
*10654	P (1, 3 ; 8) GR	←	(0, 2 ; 9) GR	E	260.444 44	0.7	2277
*10655	R (1, 1 −; 22) GR	←	(0, 0 +; 21) GR	A	260.517 30	1.1	5247
*10656	R (1, 8 ; 13) GR	←	(0, 7 ; 12) GR	E	260.519 27	1.2	7425
*10657	R (1, −2 ; 7) GR	←	(0, −1 ; 6) GR	E	260.562 75	0.1	5346
*10658	P (1, 0 +; 13) GR	←	(0, 1 −; 14) GR	A	260.651 17	0.4	7128
*10659	R (1, 4 ; 28) GR	←	(0, 3 ; 27) GR	E	260.738 64	0.2	2673
*10660	R (2, 3 ; 7) GR	←	(1, 2 ; 6) GR	A	260.816 71	−0.8	3465
*10661	P (1, −1 ; 10) GR	←	(0, 0 ; 11) GR	E	260.869 58	0.3	5148
*10662	R (3, 2 ; 16) GR	←	(3, 1 ; 15) GR	E	260.965 95	0.4	4950
*10663	R (3, 1 +; 14) GR	←	(3, 0 +; 13) GR	A	261.034 13	−0.2	3168
*10664	R (3, −1 ; 15) GR	←	(3, 0 ; 14) GR	E	261.085 07	0.0	4257
*10665	R (1, 5 ; 19) GR	←	(0, 4 ; 18) GR	E	261.228 47	0.5	8019
*10666	R (1, 5 ; 16) GR	←	(0, 4 ; 15) GR	A	261.231 20	−1.0	8316
*10667	R (1, 6 ; 21) GR	←	(0, 5 ; 20) GR	A	261.235 29	0.2	7623
*10668	R (4, −1 ; 13) GR	←	(3, −2 ; 12) GR	E	261.253 69	0.3	2277
*10669	P (1, 7 ; 25) GR	←	(0, 6 ; 26) GR	A	261.270 43	0.4	2079
*10670	R (2, 0 ; 25) GR	←	(1, −1 ; 24) GR	E	261.300 21	0.0	1980
*10671	P (1, −1 ; 4) GR	←	(0, −2 ; 5) GR	E	261.357 93	0.0	4455
*10672	P (2, 1 ; 9) GR	←	(1, 2 ; 10) GR	E	261.461 38	−0.5	2079
*10673	Q (1, 2 ; 31) GR	←	(0, 1 ; 31) GR	E	261.473 75	−0.5	2475
*10674	R (1, −4 ; 15) GR	←	(0, −3 ; 14) GR	E	261.496 72	0.4	8019
*10675	Q (1, 2 ; 30) GR	←	(0, 1 ; 30) GR	E	261.541 49	−0.5	3168
10676	P (1, −8 ; 16) GR	←	(0, −7 ; 17) GR	E	261.555 52	−6.7	3762
*10677	R (1, 3 −; 28) GR	←	(0, 4 +; 27) GR	A	261.604 15	0.3	1881
*10678	Q (1, 2 ; 29) GR	←	(0, 1 ; 29) GR	E	261.618 52	1.3	3960
10679	R (1, 3 +; 28) GR	←	(0, 4 −; 27) GR	A	261.618 52	−8.3	3960
*10680	R (1, −7 ; 19) GR	←	(0, −6 ; 18) GR	E	261.622 19	−0.7	6930
*10681	R (1, 4 ; 15) GR	←	(0, 5 ; 14) GR	A	261.648 97	0.0	6534
*10682	P (1, 4 ; 23) GR	←	(0, 3 −; 24) GR	A	261.653 72	−2.5	1287
*10683	R (1, 3 ; 8) GR	←	(0, 2 +; 7) GR	A	261.683 73	0.3	7920
*10684	R (1, 3 ; 8) GR	←	(0, 2 −; 7) GR	A	261.692 34	0.1	7524
*10685	Q (1, 2 ; 28) GR	←	(0, 1 ; 28) GR	E	261.702 46	−0.4	4059
*10686	R (1, 2 ; 11) GR	←	(0, 3 ; 10) GR	E	261.746 30	−0.3	3366
*10687	R (2, −6 ; 25) GR	←	(1, −5 ; 24) GR	E	261.777 63	0.4	3960
*10688	Q (1, 2 ; 27) GR	←	(0, 1 ; 27) GR	E	261.792 04	−2.3	5346
*10689	P (1, 4 ; 23) GR	←	(0, 3 +; 24) GR	A	261.805 95	2.9	0
*10690	Q (1, 2 ; 26) GR	←	(0, 1 ; 26) GR	E	261.886 13	1.0	5049
*10691	Q (1, 2 ; 25) GR	←	(0, 1 ; 25) GR	E	261.982 80	0.6	5346
*10692	R (1, 4 ; 29) GR	←	(0, 3 ; 28) GR	E	262.012 58	0.3	2673
*10693	R (1, 8 ; 14) GR	←	(0, 7 ; 13) GR	E	262.043 28	0.1	7623
*10694	R (1, −5 ; 9) GR	←	(0, −6 ; 8) GR	E	262.053 68	−0.5	1188
*10695	P (1, 3 ; 7) GR	←	(0, 2 ; 8) GR	E	262.067 92	0.7	1980
*10696	Q (1, 2 ; 24) GR	←	(0, 1 ; 24) GR	E	262.080 89	0.4	5643
*10697	R (1, −2 ; 8) GR	←	(0, −1 ; 7) GR	E	262.107 18	0.2	5742
*10698	R (1, 1 −; 23) GR	←	(0, 0 +; 22) GR	A	262.111 61	0.5	4455
*10699	Q (1, 2 ; 23) GR	←	(0, 1 ; 23) GR	E	262.179 18	0.1	6237
*10700	Q (1, 2 ; 22) GR	←	(0, 1 ; 22) GR	E	262.276 68	0.1	6534
*10701	R (2, 3 ; 8) GR	←	(1, 2 ; 7) GR	A	262.372 38	0.6	7425
*10702	Q (1, 2 ; 21) GR	←	(0, 1 ; 21) GR	E	262.372 38	−0.2	7425
*10703	P (1, −1 ; 9) GR	←	(0, 0 ; 10) GR	E	262.430 41	−0.5	5247
*10704	P (1, 0 +; 12) GR	←	(0, 1 −; 13) GR	A	262.437 70	0.1	6831
*10705	Q (1, 2 ; 20) GR	←	(0, 1 ; 20) GR	E	262.465 71	0.9	6930
*10706	R (3, 2 ; 17) GR	←	(3, 1 ; 16) GR	E	262.497 38	0.3	4851
*10707	Q (1, 2 ; 19) GR	←	(0, 1 ; 19) GR	E	262.555 67	0.2	7227
*10708	R (3, 1 +; 15) GR	←	(3, 0 +; 14) GR	A	262.567 65	0.4	3465
*10709	R (1, 6 ; 22) GR	←	(0, 5 ; 21) GR	A	262.583 41	−0.1	7227
*10710	R (3, −1 ; 16) GR	←	(3, 0 ; 15) GR	E	262.617 14	−2.2	4455
*10711	Q (1, 2 ; 18) GR	←	(0, 1 ; 18) GR	E	262.642 00	−1.0	7425
*10712	R (1, 5 ; 17) GR	←	(0, 4 ; 16) GR	A	262.712 37	0.0	8118
*10713	Q (1, 2 ; 17) GR	←	(0, 1 ; 17) GR	E	262.724 30	−0.5	7425
*10714	R (2, 0 ; 26) GR	←	(1, −1 ; 25) GR	E	262.784 57	0.6	1980
*10715	R (4, −1 ; 14) GR	←	(3, −2 ; 13) GR	E	262.790 91	−1.0	2475
*10716	R (1, 5 ; 20) GR	←	(0, 4 ; 19) GR	E	262.798 68	0.4	7524
*10717	Q (1, 2 ; 16) GR	←	(0, 1 ; 16) GR	E	262.802 18	−0.1	7722
*10718	Q (1, 2 ; 15) GR	←	(0, 1 ; 15) GR	E	262.875 40	−0.1	7920
*10719	P (1, 7 ; 24) GR	←	(0, 6 ; 25) GR	A	262.924 12	−1.0	2277
10720	Q (1, 2 ; 14) GR	←	(0, 1 ; 14) GR	E	262.943 35	−4.5	9207
*10721	P (1, −1 ; 3) GR	←	(0, −2 ; 4) GR	E	262.949 72	0.3	4653
*10722	Q (1, 2 ; 13) GR	←	(0, 1 ; 13) GR	E	263.007 47	0.2	8019
*10723	R (1, −4 ; 16) GR	←	(0, −3 ; 15) GR	E	263.011 44	0.2	7920
10724	R (1, 3 −; 29) GR	←	(0, 4 +; 28) GR	A	263.028 69	3.2	1584
*10725	R (1, 3 +; 29) GR	←	(0, 4 −; 28) GR	A	263.049 45	1.2	1485
*10726	P (2, 1 ; 8) GR	←	(1, 2 ; 9) GR	E	263.053 82	−1.2	2772
*10727	R (1, −7 ; 20) GR	←	(0, −6 ; 19) GR	E	263.056 16	0.0	6732
*10728	Q (1, 2 ; 12) GR	←	(0, 1 ; 12) GR	E	263.066 25	0.4	8118
*10729	Q (1, 2 ; 11) GR	←	(0, 1 ; 11) GR	E	263.120 12	−0.2	7623
*10730	Q (1, 2 ; 10) GR	←	(0, 1 ; 10) GR	E	263.169 24	−0.1	7920
*10731	P (1, −8 ; 15) GR	←	(0, −7 ; 16) GR	E	263.191 80	−1.1	1782
*10732	R (1, 4 ; 16) GR	←	(0, 5 ; 15) GR	A	263.198 70	0.5	6732
*10733	R (2, −6 ; 26) GR	←	(1, −5 ; 25) GR	E	263.207 75	0.0	4059
*10734	Q (1, 2 ; 9) GR	←	(0, 1 ; 9) GR	E	263.213 64	0.9	7722
*10735	R (1, 3 ; 9) GR	←	(0, 2 +; 8) GR	A	263.216 38	0.5	8019
10736	P (1, 4 ; 22) GR	←	(0, 3 −; 23) GR	A	263.230 74	4.8	8118
*10737	R (1, 3 ; 9) GR	←	(0, 2 −; 8) GR	A	263.230 74	0.3	8118
*10738	Q (1, 2 ; 8) GR	←	(0, 1 ; 8) GR	E	263.253 27	0.6	7623
*10739	R (1, 4 ; 30) GR	←	(0, 3 ; 29) GR	E	263.265 17	1.1	4851
*10740	R (1, 2 ; 12) GR	←	(0, 3 ; 11) GR	E	263.265 17	0.4	4851
*10741	Q (1, 2 ; 7) GR	←	(0, 1 ; 7) GR	E	263.288 31	0.3	7821
*10742	Q (1, 2 ; 6) GR	←	(0, 1 ; 6) GR	E	263.318 79	0.1	7524
*10743	Q (1, 2 ; 5) GR	←	(0, 1 ; 5) GR	E	263.344 85	0.2	7128
*10744	P (1, 4 ; 22) GR	←	(0, 3 +; 23) GR	A	263.348 60	−1.8	1485
*10745	Q (1, 2 ; 4) GR	←	(0, 1 ; 4) GR	E	263.366 44	0.2	6732
*10746	Q (1, 2 ; 3) GR	←	(0, 1 ; 3) GR	E	263.383 67	0.1	6237
*10747	Q (1, 2 ; 2) GR	←	(0, 1 ; 2) GR	E	263.396 56	−0.4	4950
*10748	R (1, 8 ; 15) GR	←	(0, 7 ; 14) GR	E	263.566 26	0.9	7227
*10749	R (1, −5 ; 10) GR	←	(0, −6 ; 9) GR	E	263.592 66	1.5	1584
*10750	R (1, −2 ; 9) GR	←	(0, −1 ; 8) GR	E	263.649 20	0.5	5346
10751	P (1, 3 ; 6) GR	←	(0, 2 ; 7) GR	E	263.681 71	−4.9	5742
*10752	R (1, 1 −; 24) GR	←	(0, 0 +; 23) GR	A	263.714 27	0.7	4653
*10753	R (1, 6 ; 23) GR	←	(0, 5 ; 22) GR	A	263.911 80	0.0	6930
*10754	R (2, 3 ; 9) GR	←	(1, 2 ; 8) GR	A	263.926 01	0.3	2871
*10755	P (1, −1 ; 8) GR	←	(0, 0 ; 9) GR	E	264.000 29	0.2	5148
*10756	R (3, 2 ; 18) GR	←	(3, 1 ; 17) GR	E	264.026 21	0.2	5049
*10757	R (3, 1 +; 16) GR	←	(3, 0 +; 15) GR	A	264.098 50	0.4	3267
*10758	R (3, −1 ; 17) GR	←	(3, 0 ; 16) GR	E	264.146 61	0.6	3762
*10759	R (1, 5 ; 18) GR	←	(0, 4 ; 17) GR	A	264.171 59	0.4	7425
*10760	P (1, 0 +; 11) GR	←	(0, 1 −; 12) GR	A	264.211 84	0.4	7029
*10761	R (2, 0 ; 27) GR	←	(1, −1 ; 26) GR	E	264.264 13	1.1	1683
*10762	R (4, −1 ; 15) GR	←	(3, −2 ; 14) GR	E	264.325 78	0.3	2277
*10763	R (1, 5 ; 21) GR	←	(0, 4 ; 20) GR	E	264.376 15	−0.1	7128
10764	R (1, 3 −; 30) GR	←	(0, 4 +; 29) GR	A	264.444 57	−4.0	1089
10765	R (1, 3 +; 30) GR	←	(0, 4 −; 29) GR	A	264.473 44	5.3	4851
*10766	R (1, −7 ; 21) GR	←	(0, −6 ; 20) GR	E	264.477 60	−0.2	6435
*10767	R (1, 4 ; 31) GR	←	(0, 3 ; 30) GR	E	264.496 01	0.6	1881
*10768	R (1, −4 ; 17) GR	←	(0, −3 ; 16) GR	E	264.524 09	0.5	7722
*10769	P (1, −1 ; 2) GR	←	(0, −2 ; 3) GR	E	264.536 75	−0.4	4455
*10770	P (1, 7 ; 23) GR	←	(0, 6 ; 24) GR	A	264.576 65	−0.4	2871
*10771	R (2, −6 ; 27) GR	←	(1, −5 ; 26) GR	E	264.627 12	2.4	3267
*10772	P (2, 1 ; 7) GR	←	(1, 2 ; 8) GR	E	264.643 98	0.5	2079
*10773	R (1, 3 ; 10) GR	←	(0, 2 +; 9) GR	A	264.743 57	−0.9	8316
*10774	R (1, 4 ; 17) GR	←	(0, 5 ; 16) GR	A	264.752 45	−0.2	6534
*10775	R (1, 3 ; 10) GR	←	(0, 2 −; 9) GR	A	264.766 26	0.2	8118
*10776	R (1, 2 ; 13) GR	←	(0, 3 ; 12) GR	E	264.777 85	0.4	3960
*10777	P (1, 4 ; 21) GR	←	(0, 3 −; 22) GR	A	264.810 43	1.6	1584
*10778	P (1, −8 ; 14) GR	←	(0, −7 ; 15) GR	E	264.824 88	1.5	1782
*10779	P (1, 4 ; 21) GR	←	(0, 3 +; 22) GR	A	264.901 59	0.4	1386
*10780	R (1, 8 ; 16) GR	←	(0, 7 ; 15) GR	E	265.088 64	0.1	7227
*10781	R (1, −5 ; 11) GR	←	(0, −6 ; 10) GR	E	265.128 77	0.6	2178
*10782	R (1, −2 ; 10) GR	←	(0, −1 ; 9) GR	E	265.189 31	0.4	5742
*10783	R (1, 6 ; 24) GR	←	(0, 5 ; 23) GR	A	265.220 02	1.2	6732
*10784	P (1, 3 ; 5) GR	←	(0, 2 ; 6) GR	E	265.288 32	−0.8	1584
*10785	R (1, 1 −; 25) GR	←	(0, 0 +; 24) GR	A	265.325 88	0.5	3861
10786	R (1, 8 ; 9) GR	←	(0, 8 ; 8) GR	A	265.370 98	−5.8	1089
*10787	R (2, 3 ; 10) GR	←	(1, 2 −; 9) GR	A	265.477 20	0.4	2079
*10788	R (2, 3 ; 10) GR	←	(1, 2 +; 9) GR	A	265.478 99	0.3	2079
*10789	R (3, 2 ; 19) GR	←	(3, 1 ; 18) GR	E	265.552 81	0.0	3960
*10790	P (1, −1 ; 7) GR	←	(0, 0 ; 8) GR	E	265.577 10	0.4	5544
*10791	R (3, 1 +; 17) GR	←	(3, 0 +; 16) GR	A	265.626 95	0.5	3069
*10792	R (1, 5 ; 19) GR	←	(0, 4 ; 18) GR	A	265.639 82	1.4	8217
*10793	R (3, −1 ; 18) GR	←	(3, 0 ; 17) GR	E	265.673 54	1.4	3663
*10794	R (1, 4 ; 32) GR	←	(0, 3 ; 31) GR	E	265.707 40	2.0	1386
*10795	R (2, 0 ; 28) GR	←	(1, −1 ; 27) GR	E	265.738 53	0.2	1485
*10796	R (1, 3 −; 31) GR	←	(0, 4 +; 30) GR	A	265.852 94	0.5	1386
*10797	R (4, −1 ; 16) GR	←	(3, −2 ; 15) GR	E	265.858 25	0.5	2376
*10798	R (1, −7 ; 22) GR	←	(0, −6 ; 21) GR	E	265.885 96	0.7	5940
*10799	R (1, 3 +; 31) GR	←	(0, 4 −; 30) GR	A	265.889 95	0.7	1287
*10800	R (1, 5 ; 22) GR	←	(0, 4 ; 21) GR	E	265.961 41	0.3	7029



Index	upper state T (n, K ; J) v	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a. .
*10801	P (1, 0 +; 10) GR	← (0, 1 −; 11) GR	A	265.972 86	0.1	6930
*10802	R (2, −6 ; 28) GR	← (1, −5 ; 27) GR	E	266.035 06	1.0	8019
*10803	R (1, −4 ; 18) GR	← (0, −3 ; 17) GR	E	266.035 06	−0.3	8019
*10804	P (1, −1 ; 1) GR	← (0, −2 ; 2) GR	E	266.119 44	−0.6	4059
*10805	P (1, 7 ; 22) GR	← (0, 6 ; 23) GR	A	266.227 55	−2.0	4356
*10806	P (2, 1 ; 6) GR	← (1, 2 ; 7) GR	E	266.231 63	1.1	5346
*10807	R (1, 3 ; 11) GR	← (0, 2 +; 10) GR	A	266.265 44	0.5	7821
*10808	R (1, 2 ; 14) GR	← (0, 3 ; 13) GR	E	266.284 06	0.7	3861
*10809	R (1, 3 ; 11) GR	← (0, 2 −; 10) GR	A	266.299 19	−0.4	8019
*10810	R (1, 4 ; 18) GR	← (0, 5 ; 17) GR	A	266.310 99	−0.1	6930
*10811	P (1, 4 ; 20) GR	← (0, 3 −; 21) GR	A	266.394 05	1.3	0
*10812	R (1, −6 ; 6) GR	← (0, −5 ; 5) GR	E	266.405 24	−1.7	7029
*10813	P (1, −8 ; 13) GR	← (0, −7 ; 14) GR	E	266.454 56	1.0	1386
*10814	P (1, 4 ; 20) GR	← (0, 3 +; 21) GR	A	266.463 50	−0.7	1386
*10815	R (1, 6 ; 25) GR	← (0, 5 ; 24) GR	A	266.507 47	0.4	6534
*10816	R (1, 9 ; 9) GR	← (0, 8 ; 8) GR	A	266.535 50	−0.3	8514
*10817	R (1, 2 ; 2) GR	← (0, 1 ; 1) GR	E	266.546 14	0.1	6138
*10818	R (1, 8 ; 17) GR	← (0, 7 ; 16) GR	E	266.610 80	0.3	7029
*10819	R (1, −5 ; 12) GR	← (0, −6 ; 11) GR	E	266.662 47	0.0	2178
*10820	R (1, −2 ; 11) GR	← (0, −1 ; 10) GR	E	266.728 19	0.2	5544
10821	P (1, 3 ; 4) GR	← (0, 2 ; 5) GR	E	266.887 99	5.6	1683
10822	R (1, 8 ; 10) GR	← (0, 8 ; 9) GR	A	266.887 99	−5.4	1683
10823	R (1, 1 −; 26) GR	← (0, 0 +; 25) GR	A	266.946 97	−2.9	3762
*10824	R (2, 3 ; 11) GR	← (1, 2 −; 10) GR	A	267.027 20	1.2	2772
*10825	R (2, 3 ; 11) GR	← (1, 2 +; 10) GR	A	267.029 54	−2.3	2970
*10826	R (3, 2 ; 20) GR	← (3, 1 ; 19) GR	E	267.076 80	0.0	4158
*10827	R (1, 5 ; 20) GR	← (0, 4 +; 19) GR	A	267.093 59	0.9	6831
10828	R (1, 5 ; 20) GR	← (0, 4 −; 19) GR	A	267.093 59	−7.3	6831
*10829	R (3, 1 +; 18) GR	← (3, 0 +; 17) GR	A	267.152 71	−0.4	3069
*10830	P (1, −1 ; 6) GR	← (0, 0 ; 7) GR	E	267.158 72	0.1	5049
*10831	R (3, −1 ; 19) GR	← (3, 0 ; 18) GR	E	267.197 92	−1.3	3366
10832	R (2, 0 ; 29) GR	← (1, −1 ; 28) GR	E	267.208 34	5.3	3267
*10833	R (1, 3 −; 32) GR	← (0, 4 +; 31) GR	A	267.251 71	−1.6	1287
*10834	R (1, −7 ; 23) GR	← (0, −6 ; 22) GR	E	267.280 59	0.7	5445
10835	R (1, 3 +; 32) GR	← (0, 4 −; 31) GR	A	267.299 41	−9.4	3069
*10836	R (4, −1 ; 17) GR	← (3, −2 ; 16) GR	E	267.388 32	0.5	2178
*10837	Q (1, 10 ; 34) GR	← (0, 9 ; 34) GR	A	267.417 03	0.8	1386
*10838	R (2, −6 ; 29) GR	← (1, −5 ; 28) GR	E	267.431 08	1.0	2475
10839	Q (1, −1 ; 21) GR	← (0, −2 ; 21) GR	E	267.479 70	−4.0	1089
*10840	Q (1, 10 ; 33) GR	← (0, 9 ; 33) GR	A	267.517 20	1.5	2178
*10841	R (1, −4 ; 19) GR	← (0, −3 ; 18) GR	E	267.544 81	0.3	7326
*10842	R (1, 5 ; 23) GR	← (0, 4 ; 22) GR	E	267.554 73	1.0	6831
*10843	Q (2, 5 ; 30) GR	← (1, 4 ; 30) GR	A	267.587 52	0.8	990
*10844	Q (1, 10 ; 32) GR	← (0, 9 ; 32) GR	A	267.617 25	−0.3	2277
*10845	Q (1, 10 ; 31) GR	← (0, 9 ; 31) GR	A	267.717 30	−1.3	5247
*10846	P (1, 0 +; 9) GR	← (0, 1 −; 10) GR	A	267.720 07	0.3	7227
*10847	Q (1, −1 ; 20) GR	← (0, −2 ; 20) GR	E	267.722 54	1.2	2277
*10848	R (1, 6 ; 26) GR	← (0, 5 ; 25) GR	A	267.774 00	−0.1	5841
*10849	R (1, 3 ; 12) GR	← (0, 2 +; 11) GR	A	267.781 25	−0.1	8019
*10850	R (1, 2 ; 15) GR	← (0, 3 ; 14) GR	E	267.783 38	−0.1	4059
*10851	P (2, 1 ; 5) GR	← (1, 2 ; 6) GR	E	267.816 93	2.8	3762
*10852	Q (1, 10 ; 30) GR	← (0, 9 ; 30) GR	A	267.816 93	−1.5	3762
*10853	R (1, 3 ; 12) GR	← (0, 2 −; 11) GR	A	267.830 01	−0.4	7821
10854	Q (2, 5 ; 29) GR	← (1, 4 ; 29) GR	A	267.875 00	11.4	7227
*10855	R (1, 4 ; 19) GR	← (0, 5 ; 18) GR	A	267.875 00	−0.7	7227
*10856	P (1, 7 ; 21) GR	← (0, 6 ; 22) GR	A	267.876 96	−0.6	3366
*10857	Q (1, 10 ; 29) GR	← (0, 9 ; 29) GR	A	267.916 13	−0.8	3663
*10858	Q (1, −1 ; 19) GR	← (0, −2 ; 19) GR	E	267.939 24	−0.5	2376
*10859	R (1, −6 ; 7) GR	← (0, −5 ; 6) GR	E	267.947 48	−0.7	7326
*10860	P (1, 4 ; 19) GR	← (0, 3 −; 20) GR	A	267.981 79	0.5	1683
*10861	Q (1, 10 ; 28) GR	← (0, 9 ; 28) GR	A	268.014 62	1.2	3267
*10862	P (1, 4 ; 19) GR	← (0, 3 +; 20) GR	A	268.034 01	−0.5	4851
*10863	R (1, 9 ; 10) GR	← (0, 8 ; 9) GR	A	268.074 88	0.7	8514
*10864	P (1, −8 ; 12) GR	← (0, −7 ; 13) GR	E	268.081 04	−0.4	1485
*10865	R (1, 2 ; 3) GR	← (0, 1 ; 2) GR	E	268.107 94	0.4	6633
*10866	Q (1, 10 ; 27) GR	← (0, 9 ; 27) GR	A	268.112 19	3.8	5247
*10867	Q (1, −1 ; 18) GR	← (0, −2 ; 18) GR	E	268.131 51	−1.3	3098
*10868	R (1, 8 ; 18) GR	← (0, 7 ; 17) GR	E	268.132 81	−1.6	6825
*10869	Q (2, 5 ; 28) GR	← (1, 4 ; 28) GR	A	268.144 80	1.5	1782
*10870	R (1, −5 ; 13) GR	← (0, −6 ; 12) GR	E	268.194 27	0.7	2772
*10871	Q (1, 10 ; 26) GR	← (0, 9 ; 26) GR	A	268.207 69	0.5	4158
*10872	R (1, −2 ; 12) GR	← (0, −1 ; 11) GR	E	268.266 54	0.5	5346
*10873	Q (1, −1 ; 17) GR	← (0, −2 ; 17) GR	E	268.301 67	2.9	6039
*10874	Q (1, 10 ; 25) GR	← (0, 9 ; 25) GR	A	268.301 67	−1.2	6039
*10875	Q (1, 10 ; 24) GR	← (0, 9 ; 24) GR	A	268.394 19	−1.7	6138
*10876	R (1, 8 ; 11) GR	← (0, 8 ; 10) GR	A	268.399 84	1.0	2772
*10877	Q (2, 5 ; 27) GR	← (1, 4 ; 27) GR	A	268.399 84	0.4	2772
*10878	Q (1, −1 ; 16) GR	← (0, −2 ; 16) GR	E	268.450 23	0.2	3762
*10879	P (1, 3 ; 3) GR	← (0, 2 ; 4) GR	E	268.480 32	0.1	792
*10880	Q (1, 10 ; 23) GR	← (0, 9 ; 23) GR	A	268.484 82	0.4	5247
*10881	R (1, 5 ; 21) GR	← (0, 4 +; 20) GR	A	268.536 50	0.1	5841
*10882	R (1, 5 ; 21) GR	← (0, 4 −; 20) GR	A	268.538 59	1.7	5247
*10883	Q (1, 10 ; 22) GR	← (0, 9 ; 22) GR	A	268.573 14	0.0	6039
*10884	R (2, 3 ; 12) GR	← (1, 2 −; 11) GR	A	268.575 51	1.5	2574
10885	R (1, 1 −; 27) GR	← (0, 0 +; 26) GR	A	268.579 70	4.8	6039
*10886	R (2, 3 ; 12) GR	← (1, 2 +; 11) GR	A	268.579 70	4.0	6039
10887	Q (1, −1 ; 15) GR	← (0, −2 ; 15) GR	E	268.579 70	−4.1	6039
*10888	R (3, 2 ; 21) GR	← (3, 1 ; 20) GR	E	268.598 09	−0.2	3861
*10889	Q (2, 5 ; 26) GR	← (1, 4 ; 26) GR	A	268.639 18	0.5	2574
*10890	R (1, 3 −; 33) GR	← (0, 4 +; 32) GR	A	268.641 45	−2.6	1386
*10891	Q (1, 10 ; 21) GR	← (0, 9 ; 21) GR	A	268.659 06	0.2	5742
*10892	R (1, −7 ; 24) GR	← (0, −6 ; 23) GR	E	268.660 64	0.0	5247
10893	R (2, 0 ; 30) GR	← (1, −1 ; 29) GR	E	268.672 98	5.0	1782
*10894	R (3, 1 +; 19) GR	← (3, 0 +; 18) GR	A	268.676 00	−0.7	2772
*10895	Q (1, −1 ; 14) GR	← (0, −2 ; 14) GR	E	268.693 28	−0.1	4653
*10896	R (1, 3 +; 33) GR	← (0, 4 −; 32) GR	A	268.704 04	0.7	990
*10897	R (3, −1 ; 20) GR	← (3, 0 ; 19) GR	E	268.719 55	0.2	3267
*10898	Q (1, 10 ; 20) GR	← (0, 9 ; 20) GR	A	268.742 50	3.8	6732
10899	P (1, −1 ; 5) GR	← (0, 0 ; 6) GR	E	268.742 50	−7.8	6732
*10900	Q (1, −1 ; 13) GR	← (0, −2 ; 13) GR	E	268.791 39	−0.2	4653
*10901	R (2, −6 ; 30) GR	← (1, −5 ; 29) GR	E	268.815 17	1.0	2178
*10902	Q (1, 10 ; 19) GR	← (0, 9 ; 19) GR	A	268.821 90	0.9	6237
*10903	Q (2, 5 ; 25) GR	← (1, 4 ; 25) GR	A	268.862 50	0.8	2772
*10904	Q (1, −1 ; 12) GR	← (0, −2 ; 12) GR	E	268.876 42	0.3	5049
*10905	Q (1, 10 ; 18) GR	← (0, 9 ; 18) GR	A	268.893 75	0.1	5643
*10906	R (4, −1 ; 18) GR	← (3, −2 ; 17) GR	E	268.915 82	1.3	2079
*10907	Q (1, −1 ; 11) GR	← (0, −2 ; 11) GR	E	268.949 75	0.0	5148
*10908	Q (1, 10 ; 17) GR	← (0, 9 ; 17) GR	A	268.980 24	0.8	6336
*10909	Q (1, −1 ; 10) GR	← (0, −2 ; 10) GR	E	269.012 92	0.2	6435
*10910	R (1, 6 ; 27) GR	← (0, 5 ; 26) GR	A	269.019 27	1.3	5445
*10911	Q (1, 10 ; 16) GR	← (0, 9 ; 16) GR	A	269.049 96	0.7	6435
*10912	R (1, −4 ; 20) GR	← (0, −3 ; 19) GR	E	269.053 46	0.1	7029
*10913	Q (1, −1 ; 9) GR	← (0, −2 ; 9) GR	E	269.066 98	0.4	5742
*10914	Q (2, 5 ; 24) GR	← (1, 4 ; 24) GR	A	269.069 87	−1.8	2871
*10915	Q (1, −1 ; 8) GR	← (0, −2 ; 8) GR	E	269.112 96	0.7	5742
*10916	Q (1, 10 ; 15) GR	← (0, 9 ; 15) GR	A	269.117 49	−0.5	6732
*10917	Q (1, −1 ; 7) GR	← (0, −2 ; 7) GR	E	269.151 72	−0.1	5544
*10918	R (1, 5 ; 24) GR	← (0, 4 ; 23) GR	E	269.156 35	0.0	6831
*10919	Q (1, 10 ; 14) GR	← (0, 9 ; 14) GR	A	269.181 86	0.3	6930
*10920	Q (1, −1 ; 6) GR	← (0, −2 ; 6) GR	E	269.184 23	0.9	5544
*10921	Q (1, −1 ; 5) GR	← (0, −2 ; 5) GR	E	269.210 80	1.0	5049
*10922	Q (1, −1 ; 4) GR	← (0, −2 ; 4) GR	E	269.232 17	0.5	4752
*10923	Q (1, 10 ; 13) GR	← (0, 9 ; 13) GR	A	269.242 66	0.9	6534
*10924	Q (1, −1 ; 3) GR	← (0, −2 ; 3) GR	E	269.248 77	0.8	3960
10925	Q (1, −1 ; 2) GR	← (0, −2 ; 2) GR	E	269.261 42	6.0	4356
*10926	Q (2, 5 ; 23) GR	← (1, 4 ; 23) GR	A	269.261 42	−2.7	4356
*10927	R (1, 2 ; 16) GR	← (0, 3 ; 15) GR	E	269.275 45	0.5	4158
*10928	R (1, 3 ; 13) GR	← (0, 2 +; 12) GR	A	269.291 17	0.6	7821
*10929	Q (1, 10 ; 12) GR	← (0, 9 ; 12) GR	A	269.299 66	0.3	5742
*10930	P (1, 6 ; 28) GR	← (0, 5 ; 29) GR	E	269.340 90	3.2	3564
*10931	Q (1, 10 ; 11) GR	← (0, 9 ; 11) GR	A	269.352 80	−0.6	5346
*10932	R (1, 3 ; 13) GR	← (0, 2 −; 12) GR	A	269.359 33	−0.6	7722
*10933	P (2, 1 ; 4) GR	← (1, 2 ; 5) GR	E	269.399 16	−0.6	1782
*10934	Q (1, 10 ; 10) GR	← (0, 9 ; 10) GR	A	269.401 89	−0.8	3861
*10935	Q (2, 5 ; 22) GR	← (1, 4 ; 22) GR	A	269.438 29	−0.2	3366
*10936	R (1, 4 ; 20) GR	← (0, 5 ; 19) GR	A	269.445 25	0.3	6831
*10937	P (1, 0 +; 8) GR	← (0, 1 −; 9) GR	A	269.453 06	0.5	7227
*10938	R (1, −6 ; 8) GR	← (0, −5 ; 7) GR	E	269.484 86	−0.3	7029
*10939	P (1, 7 ; 20) GR	← (0, 6 ; 21) GR	A	269.524 32	0.3	3069
*10940	P (1, 4 ; 18) GR	← (0, 3 −; 19) GR	A	269.573 46	0.0	1980
*10941	Q (2, 5 ; 21) GR	← (1, 4 ; 21) GR	A	269.599 61	0.4	3762
*10942	R (1, 9 ; 11) GR	← (0, 8 ; 10) GR	A	269.609 84	0.2	8415
*10943	P (1, 4 ; 18) GR	← (0, 3 +; 19) GR	A	269.612 22	−0.5	2376
*10944	R (1, 8 ; 19) GR	← (0, 7 ; 18) GR	E	269.655 73	−0.2	6534
*10945	R (1, 2 ; 4) GR	← (0, 1 ; 3) GR	E	269.665 41	0.9	6732
*10946	P (1, −8 ; 11) GR	← (0, −7 ; 12) GR	E	269.704 27	1.0	1287
*10947	R (1, −5 ; 14) GR	← (0, −6 ; 13) GR	E	269.724 17	0.5	2970
*10948	Q (2, 5 ; 20) GR	← (1, 4 ; 20) GR	A	269.746 25	0.3	4059
*10949	R (1, −2 ; 13) GR	← (0, −1 ; 12) GR	E	269.805 01	0.2	5445
*10950	Q (2, 5 ; 19) GR	← (1, 4 ; 19) GR	A	269.878 72	−0.1	4158



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
10951	R (1, 8 ; 12) GR	←	(0, 8 ; 11) GR	A	269.905 54	5.1	5841
*10952	R (1, 5 ; 22) GR	←	(0, 4 +; 21) GR	A	269.969 29	0.8	5148
*10953	R (1, 5 ; 22) GR	←	(0, 4 −; 21) GR	A	269.972 15	−0.1	5346
*10954	Q (2, 5 ; 18) GR	←	(1, 4 ; 18) GR	A	269.997 70	−0.2	4851
*10955	R (1, −7 ; 25) GR	←	(0, −6 ; 24) GR	E	270.025 73	0.2	4752
*10956	Q (2, 5 ; 17) GR	←	(1, 4 ; 17) GR	A	270.103 86	0.2	4857
*10957	R (3, 2 ; 22) GR	←	(3, 1 ; 21) GR	E	270.116 76	0.5	3564
*10958	R (2, 3 ; 13) GR	←	(1, 2 −; 12) GR	A	270.121 90	−0.6	1980
*10959	R (2, 3 ; 13) GR	←	(1, 2 +; 12) GR	A	270.127 45	0.9	1980
*10960	R (2, 0 ; 31) GR	←	(1, −1 ; 30) GR	E	270.134 46	0.2	1287
*10961	R (2, −6 ; 31) GR	←	(1, −5 ; 30) GR	E	270.187 10	1.9	1571
10962	R (3, 1 +; 20) GR	←	(3, 0 +; 19) GR	A	270.197 66	6.4	5310
*10963	Q (2, 5 ; 16) GR	←	(1, 4 ; 16) GR	A	270.197 75	−1.4	5148
*10964	R (1, 1 −; 28) GR	←	(0, 0 +; 27) GR	A	270.222 20	−0.8	3564
*10965	R (3, −1 ; 21) GR	←	(3, 0 ; 20) GR	E	270.238 50	0.4	3168
*10966	R (1, 6 ; 28) GR	←	(0, 5 ; 27) GR	A	270.243 20	2.8	6435
*10967	Q (2, 5 ; 15) GR	←	(1, 4 ; 15) GR	A	270.280 88	0.2	5428
*10968	P (1, −1 ; 4) GR	←	(0, 0 ; 5) GR	E	270.329 30	0.5	4666
*10969	Q (2, 5 ; 14) GR	←	(1, 4 ; 14) GR	A	270.353 35	0.2	5619
*10970	Q (2, 5 ; 13) GR	←	(1, 4 ; 13) GR	A	270.416 33	−0.3	5714
*10971	R (4, −1 ; 19) GR	←	(3, −2 ; 18) GR	E	270.440 66	−0.3	2178
*10972	Q (2, 5 ; 12) GR	←	(1, 4 ; 12) GR	A	270.470 61	0.2	5619
*10973	Q (2, 5 ; 11) GR	←	(1, 4 ; 11) GR	A	270.517 15	0.4	5544
*10974	Q (2, 5 ; 10) GR	←	(1, 4 ; 10) GR	A	270.556 68	0.7	5841
*10975	R (1, −4 ; 21) GR	←	(0, −3 ; 20) GR	E	270.561 58	0.5	7029
*10976	Q (2, 5 ; 9) GR	←	(1, 4 ; 9) GR	A	270.589 96	0.4	5247
*10977	Q (2, 5 ; 8) GR	←	(1, 4 ; 8) GR	A	270.617 59	−0.8	5643
*10978	Q (2, 5 ; 7) GR	←	(1, 4 ; 7) GR	A	270.640 73	0.4	4455
*10979	Q (2, 5 ; 6) GR	←	(1, 4 ; 6) GR	A	270.659 50	−0.1	3564
*10980	Q (2, 5 ; 5) GR	←	(1, 4 ; 5) GR	A	270.674 72	1.2	2772
*10981	Q (1, 3 ; 29) GR	←	(0, 2 ; 29) GR	E	270.746 55	0.3	1904
*10982	R (1, 2 ; 17) GR	←	(0, 3 ; 16) GR	E	270.759 76	0.7	4356
*10983	R (1, 5 ; 25) GR	←	(0, 4 ; 24) GR	E	270.766 57	−0.3	6138
*10984	R (1, 3 ; 14) GR	←	(0, 2 +; 13) GR	A	270.794 71	0.4	7623
*10985	R (1, 3 ; 14) GR	←	(0, 2 −; 13) GR	A	270.887 56	−0.9	7821
*10986	P (2, 1 ; 3) GR	←	(1, 2 ; 4) GR	E	270.979 95	4.8	2952
*10987	R (1, −6 ; 9) GR	←	(0, −5 ; 8) GR	E	271.017 05	0.3	7029
*10988	R (1, 4 ; 21) GR	←	(0, 5 ; 20) GR	A	271.022 04	0.2	7128
*10989	Q (1, 3 ; 28) GR	←	(0, 2 ; 28) GR	E	271.029 01	−1.0	2285
10990	P (1, 6 ; 27) GR	←	(0, 5 ; 28) GR	E	271.111 48	5.3	1881
*10991	R (1, 9 ; 12) GR	←	(0, 8 ; 11) GR	A	271.140 13	0.5	8019
10992	P (1, 4 ; 17) GR	←	(0, 3 −; 18) GR	A	271.169 27	4.3	5809
*10993	P (1, 7 ; 19) GR	←	(0, 6 ; 20) GR	A	271.169 27	−2.4	5809
*10994	P (1, 0 +; 7) GR	←	(0, 1 −; 8) GR	A	271.171 21	0.3	6857
*10995	R (1, 8 ; 20) GR	←	(0, 7 ; 19) GR	E	271.179 12	0.4	6633
*10996	P (1, 4 ; 17) GR	←	(0, 3 +; 18) GR	A	271.197 12	−0.1	2476
*10997	R (1, 2 ; 5) GR	←	(0, 1 ; 4) GR	E	271.218 37	0.5	7029
*10998	R (1, −5 ; 15) GR	←	(0, −6 ; 14) GR	E	271.252 57	−0.4	3168
*10999	Q (1, 3 ; 27) GR	←	(0, 2 ; 27) GR	E	271.304 93	−0.1	2761
*11000	P (1, −8 ; 10) GR	←	(0, −7 ; 11) GR	E	271.324 14	2.5	1238
*11001	R (1, −2 ; 14) GR	←	(0, −1 ; 13) GR	E	271.344 63	0.7	5346
*11002	R (1, −7 ; 26) GR	←	(0, −6 ; 25) GR	E	271.375 07	1.2	4158
*11003	R (1, 5 ; 23) GR	←	(0, 4 +; 22) GR	A	271.391 04	0.3	4950
*11004	R (1, 5 ; 23) GR	←	(0, 4 −; 22) GR	A	271.395 30	1.0	4752
*11005	R (1, 8 ; 13) GR	←	(0, 8 ; 12) GR	A	271.404 38	0.0	2079
*11006	R (1, 6 ; 29) GR	←	(0, 5 ; 28) GR	A	271.445 09	−0.1	3861
*11007	R (2, −6 ; 32) GR	←	(1, −5 ; 31) GR	E	271.546 06	1.3	1881
*11008	Q (1, 3 ; 26) GR	←	(0, 2 ; 26) GR	E	271.573 69	0.9	2952
*11009	R (3, 2 ; 23) GR	←	(3, 1 ; 22) GR	E	271.632 79	0.8	3366
*11010	R (2, 3 ; 14) GR	←	(1, 2 −; 13) GR	A	271.667 10	0.6	2079
*11011	R (2, 3 ; 14) GR	←	(1, 2 +; 13) GR	A	271.674 46	0.4	1980
*11012	R (3, 1 +; 21) GR	←	(3, 0 +; 20) GR	A	271.714 52	0.1	2673
*11013	R (3, −1 ; 22) GR	←	(3, 0 ; 21) GR	E	271.754 56	−0.7	2673
*11014	Q (1, 3 ; 25) GR	←	(0, 2 ; 25) GR	E	271.835 03	0.3	3333
*11015	R (1, 1 −; 29) GR	←	(0, 0 +; 28) GR	A	271.876 88	0.4	2277
*11016	P (1, −1 ; 3) GR	←	(0, 0 ; 4) GR	E	271.914 96	0.0	4190
*11017	R (4, −1 ; 20) GR	←	(3, −2 ; 19) GR	E	271.962 92	0.8	2079
*11018	R (1, −4 ; 22) GR	←	(0, −3 ; 21) GR	E	272.069 38	0.2	6831
*11019	Q (1, 3 ; 24) GR	←	(0, 2 ; 24) GR	E	272.088 79	0.0	3523
*11020	R (1, 2 ; 18) GR	←	(0, 3 ; 17) GR	E	272.235 90	0.1	3960
*11021	P (1, 8 ; 19) GR	←	(0, 7 ; 20) GR	A	272.271 77	−0.1	1428
*11022	R (1, 3 ; 15) GR	←	(0, 2 +; 14) GR	A	272.291 67	0.8	7623
*11023	Q (1, 3 ; 23) GR	←	(0, 2 ; 23) GR	E	272.334 77	0.2	3714
*11024	R (1, 5 ; 26) GR	←	(0, 4 ; 25) GR	E	272.385 58	0.8	5940
*11025	R (1, 3 ; 15) GR	←	(0, 2 −; 14) GR	A	272.415 28	−0.8	7524

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*11026	R (1, −6 ; 10) GR	←	(0, −5 ; 9) GR	E	272.543 93	−0.3	6732
*11027	P (2, 1 ; 2) GR	←	(1, 2 ; 3) GR	E	272.557 19	−0.6	1485
*11028	Q (1, 3 ; 22) GR	←	(0, 2 ; 22) GR	E	272.572 58	0.9	4285
*11029	R (1, 4 ; 22) GR	←	(0, 5 ; 21) GR	A	272.606 05	0.2	6633
*11030	R (1, 6 ; 30) GR	←	(0, 5 ; 29) GR	A	272.625 56	0.7	2970
*11031	R (1, 9 ; 13) GR	←	(0, 8 ; 12) GR	A	272.665 53	0.2	8019
*11032	R (1, 8 ; 21) GR	←	(0, 7 ; 20) GR	E	272.703 15	0.8	6237
*11033	R (1, −7 ; 27) GR	←	(0, −6 ; 26) GR	E	272.707 96	0.0	3960
*11034	R (1, 2 ; 6) GR	←	(0, 1 ; 5) GR	E	272.766 92	1.5	7425
11035	P (1, 4 ; 16) GR	←	(0, 3 −; 17) GR	A	272.766 92	−6.4	7523
*11036	R (1, −5 ; 16) GR	←	(0, −6 ; 15) GR	E	272.779 89	−0.8	3168
*11037	P (1, 4 ; 16) GR	←	(0, 3 +; 17) GR	A	272.787 78	−1.3	2571
*11038	R (1, 5 ; 24) GR	←	(0, 4 +; 23) GR	A	272.801 49	3.5	7326
*11039	Q (1, 3 ; 21) GR	←	(0, 2 ; 21) GR	E	272.801 49	−2.4	7428
*11040	R (1, 5 ; 24) GR	←	(0, 4 −; 23) GR	A	272.807 12	0.0	4455
*11041	P (1, 7 ; 18) GR	←	(0, 6 ; 19) GR	A	272.812 51	−0.9	3809
11042	P (1, 6 ; 26) GR	←	(0, 5 ; 27) GR	E	272.872 32	4.2	1799
*11043	P (1, 0 +; 6) GR	←	(0, 1 −; 7) GR	A	272.874 11	0.1	6857
*11044	R (1, −2 ; 15) GR	←	(0, −1 ; 14) GR	E	272.885 95	0.9	4950
*11045	R (2, −6 ; 33) GR	←	(1, −5 ; 32) GR	E	272.892 56	2.4	2178
*11046	R (1, 8 ; 14) GR	←	(0, 8 ; 13) GR	A	272.897 73	−0.6	2178
*11047	Q (1, 3 ; 20) GR	←	(0, 2 ; 20) GR	E	273.021 61	0.0	4952
*11048	R (3, 2 ; 24) GR	←	(3, 1 ; 23) GR	E	273.146 07	0.7	3069
*11049	R (2, 3 ; 15) GR	←	(1, 2 −; 14) GR	A	273.210 59	−0.5	2079
*11050	R (2, 3 ; 15) GR	←	(1, 2 +; 14) GR	A	273.220 65	1.9	1980
*11051	R (3, 1 +; 22) GR	←	(3, 0 +; 21) GR	A	273.229 36	−1.7	2626
*11052	Q (1, 3 ; 19) GR	←	(0, 2 ; 19) GR	E	273.231 17	0.3	5238
*11053	R (3, −1 ; 23) GR	←	(3, 0 ; 22) GR	E	273.267 95	−1.2	2673
*11054	Q (1, 3 ; 18) GR	←	(0, 2 ; 18) GR	E	273.429 30	0.4	5619
*11055	R (4, −1 ; 21) GR	←	(3, −2 ; 20) GR	E	273.482 58	−0.9	1782
*11056	P (1, −1 ; 2) GR	←	(0, 0 ; 3) GR	E	273.499 29	0.4	3142
*11057	R (1, 1 −; 30) GR	←	(0, 0 +; 29) GR	A	273.543 70	0.2	1782
*11058	R (1, −4 ; 23) GR	←	(0, −3 ; 22) GR	E	273.577 35	0.3	6435
*11059	Q (1, 3 ; 17) GR	←	(0, 2 ; 17) GR	E	273.614 63	0.8	5619
*11060	R (1, 2 ; 19) GR	←	(0, 3 ; 18) GR	E	273.703 47	0.3	4059
*11061	R (1, 3 ; 16) GR	←	(0, 2 +; 15) GR	A	273.781 87	1.4	7623
*11062	R (1, 6 ; 31) GR	←	(0, 5 ; 30) GR	A	273.784 43	1.3	3366
*11063	Q (1, 3 ; 16) GR	←	(0, 2 ; 16) GR	E	273.786 06	0.7	5904
*11064	P (2, 6 ; 22) GR	←	(0, 7 ; 23) GR	E	273.930 53	1.9	1428
*11065	Q (1, 3 ; 15) GR	←	(0, 2 ; 15) GR	E	273.943 07	4.0	8666
*11066	R (1, 3 ; 16) GR	←	(0, 2 −; 15) GR	A	273.943 07	−1.2	8613
11067	P (1, 8 ; 18) GR	←	(0, 7 ; 19) GR	A	273.943 07	−7.9	8666
*11068	R (1, 5 ; 27) GR	←	(0, 4 ; 26) GR	E	274.013 10	0.4	5247
*11069	R (1, −7 ; 28) GR	←	(0, −6 ; 27) GR	E	274.023 86	−0.5	3069
*11070	R (1, −6 ; 11) GR	←	(0, −5 ; 10) GR	E	274.065 38	0.1	6831
*11071	Q (1, 3 ; 14) GR	←	(0, 2 ; 14) GR	E	274.083 82	0.6	6095
*11072	P (2, 1 ; 1) GR	←	(1, 2 ; 2) GR	E	274.132 42	−1.5	1089
*11073	R (1, 9 ; 14) GR	←	(0, 8 ; 13) GR	A	274.185 74	−1.3	8316
*11074	R (1, 4 ; 23) GR	←	(0, 5 ; 22) GR	A	274.197 47	−0.3	6633
*11075	R (1, 5 ; 25) GR	←	(0, 4 +; 24) GR	A	274.198 83	−0.8	4120
*11076	R (1, 5 ; 25) GR	←	(0, 4 −; 24) GR	A	274.207 41	0.7	4257
*11077	Q (1, 3 ; 13) GR	←	(0, 2 ; 13) GR	E	274.209 44	0.3	6190
*11078	R (1, 8 ; 22) GR	←	(0, 7 ; 21) GR	E	274.228 02	−0.3	5940
*11079	R (1, −5 ; 17) GR	←	(0, −6 ; 16) GR	E	274.306 52	0.8	3267
*11080	R (1, 2 ; 7) GR	←	(0, 1 ; 6) GR	E	274.310 71	0.6	7227
*11081	Q (1, 3 ; 12) GR	←	(0, 2 ; 12) GR	E	274.319 47	0.8	6666
*11082	P (1, 4 ; 15) GR	←	(0, 3 −; 16) GR	A	274.369 31	0.2	2666
11083	P (1, 4 ; 15) GR	←	(0, 3 +; 16) GR	A	274.384 34	7.0	3714
11084	R (1, 8 ; 15) GR	←	(0, 8 ; 14) GR	A	274.384 34	−6.3	3465
*11085	Q (1, 3 ; 11) GR	←	(0, 2 ; 11) GR	E	274.414 75	−0.5	6285
*11086	R (1, −2 ; 16) GR	←	(0, −1 ; 15) GR	E	274.429 96	0.1	5544
*11087	P (1, 7 ; 17) GR	←	(0, 6 ; 18) GR	A	274.453 10	−0.8	3619
*11088	Q (1, 3 ; 10) GR	←	(0, 2 ; 10) GR	E	274.496 37	0.8	6190
*11089	P (1, 0 +; 5) GR	←	(0, 1 −; 6) GR	A	274.561 40	−0.4	6571
*11090	Q (1, 3 ; 9) GR	←	(0, 2 ; 9) GR	E	274.565 13	0.1	6095
*11091	Q (1, 3 ; 8) GR	←	(0, 2 ; 8) GR	E	274.622 32	−0.2	7047
11092	P (1, 6 ; 25) GR	←	(0, 5 ; 26) GR	E	274.622 32	−7.9	6930
*11093	R (3, 2 ; 25) GR	←	(3, 1 ; 24) GR	E	274.656 84	2.4	3069
*11094	Q (1, 3 ; 7) GR	←	(0, 2 ; 7) GR	E	274.669 48	0.6	6000
*11095	Q (1, 3 ; 6) GR	←	(0, 2 ; 6) GR	E	274.707 67	−0.1	5238
*11096	Q (1, 3 ; 5) GR	←	(0, 2 ; 5) GR	E	274.738 16	0.8	5809
*11097	R (3, 1 +; 23) GR	←	(3, 0 +; 22) GR	A	274.742 34	1.1	2376
*11098	R (2, 3 ; 16) GR	←	(1, 2 −; 15) GR	A	274.752 94	−0.1	1584
*11099	Q (1, 3 ; 4) GR	←	(0, 2 ; 4) GR	E	274.761 79	1.4	4285
*11100	R (2, 3 ; 16) GR	←	(1, 2 +; 15) GR	A	274.765 95	1.7	1782



Index	upper state T (n, K ; J)	v	←	lower state (n, K ; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
11101	R (3, −1 ; 24)	GR	←	(3, 0 ; 23)	GR	E	274.778 89	5.4	3465
*11102	Q (1, 3 ; 3)	GR	←	(0, 2 ; 3)	GR	E	274.778 89	−4.3	3714
*11103	Q (1, 9 ; 35)	GR	←	(0, 8 ; 35)	GR	E	274.897 04	0.0	1142
*11104	R (1, 6 ; 32)	GR	←	(0, 5 ; 31)	GR	A	274.921 21	−2.2	2475
11105	Q (1, 9 ; 34)	GR	←	(0, 8 ; 34)	GR	E	274.993 60	0.0	1238
*11106	R (4, −1 ; 22)	GR	←	(3, −2 ; 21)	GR	E	274.999 51	−0.2	1683
*11107	P (1, −1 ; 1)	GR	←	(0, 0 ; 2)	GR	E	275.081 13	0.9	2285
*11108	R (1, −4 ; 24)	GR	←	(0, −3 ; 23)	GR	E	275.085 81	−0.7	6237
*11109	Q (1, 9 ; 33)	GR	←	(0, 8 ; 33)	GR	E	275.090 05	−0.9	2000
*11110	R (1, 2 ; 20)	GR	←	(0, 3 ; 19)	GR	E	275.161 91	1.1	4158
*11111	Q (1, 9 ; 32)	GR	←	(0, 8 ; 32)	GR	E	275.188 70	1.2	1428
*11112	R (1, 1 $^-$; 31)	GR	←	(0, 0 $^+$; 30)	GR	A	275.223 52	0.3	1782
*11113	R (1, 3 ; 17)	GR	←	(0, 2 $^+$; 16)	GR	A	275.264 96	2.8	7227
*11114	Q (1, 9 ; 31)	GR	←	(0, 8 ; 31)	GR	E	275.287 99	−0.8	2000
*11115	R (1, −7 ; 29)	GR	←	(0, −6 ; 28)	GR	E	275.322 49	0.4	2970
*11116	Q (1, 9 ; 30)	GR	←	(0, 8 ; 30)	GR	E	275.387 52	0.9	2095
*11117	P (1, −5 ; 26)	GR	←	(0, −4 ; 27)	GR	E	275.467 19	−0.5	1619
*11118	R (1, 3 ; 17)	GR	←	(0, 2 $^-$; 16)	GR	A	275.471 79	−1.5	7425
*11119	Q (1, 9 ; 29)	GR	←	(0, 8 ; 29)	GR	E	275.486 64	−0.2	2571
*11120	R (1, −1 ; 4)	GR	←	(0, −2 ; 3)	GR	E	275.531 33	2.0	1287
*11121	R (1, −6 ; 12)	GR	←	(0, −5 ; 11)	GR	E	275.581 28	−0.1	7029
*11122	R (1, 5 ; 26)	GR	←	(0, 4 $^+$; 25)	GR	A	275.584 05	1.3	4257
*11123	Q (1, 9 ; 28)	GR	←	(0, 8 ; 28)	GR	E	275.585 44	0.4	1724
*11124	R (1, 5 ; 26)	GR	←	(0, 4 $^-$; 25)	GR	A	275.595 53	0.0	3861
11125	P (2, 6 ; 21)	GR	←	(0, 7 ; 22)	GR	E	275.610 83	7.1	1809
11126	P (1, 8 ; 17)	GR	←	(0, 7 ; 18)	GR	A	275.610 83	−4.5	1809
*11127	R (1, 5 ; 28)	GR	←	(0, 4 ; 27)	GR	E	275.649 21	0.1	5247
*11128	Q (1, 9 ; 27)	GR	←	(0, 8 ; 27)	GR	E	275.683 03	−0.2	3333
*11129	R (1, 9 ; 15)	GR	←	(0, 8 ; 14)	GR	A	275.700 59	0.6	7821
*11130	R (1, 8 ; 23)	GR	←	(0, 7 ; 22)	GR	E	275.753 67	−0.4	5544
*11131	Q (1, 9 ; 26)	GR	←	(0, 8 ; 26)	GR	E	275.779 43	0.7	3333
*11132	R (1, 4 ; 24)	GR	←	(0, 5 ; 23)	GR	A	275.796 60	1.1	6732
*11133	R (1, −5 ; 18)	GR	←	(0, −6 ; 17)	GR	E	275.832 64	0.3	3465
*11134	R (1, 2 ; 8)	GR	←	(0, 1 ; 7)	GR	E	275.849 84	0.1	7227
*11135	R (1, 8 ; 16)	GR	←	(0, 8 ; 15)	GR	A	275.866 10	0.1	2475
*11136	Q (1, 9 ; 25)	GR	←	(0, 8 ; 25)	GR	E	275.874 32	−0.1	3809
*11137	Q (1, 9 ; 24)	GR	←	(0, 8 ; 24)	GR	E	275.967 45	−0.1	4380
*11138	P (1, 4 ; 14)	GR	←	(0, 3 $^-$; 15)	GR	A	275.973 68	1.7	2666
*11139	R (1, −2 ; 17)	GR	←	(0, −1 ; 16)	GR	E	275.977 56	0.2	4653
*11140	P (1, 4 ; 14)	GR	←	(0, 3 $^+$; 15)	GR	A	275.983 42	0.9	2571
*11141	R (1, 6 ; 33)	GR	←	(0, 5 ; 32)	GR	A	276.036 67	−1.0	1584
*11142	Q (1, 9 ; 23)	GR	←	(0, 8 ; 23)	GR	E	276.058 56	0.9	4476
*11143	P (1, 7 ; 16)	GR	←	(0, 6 ; 17)	GR	A	276.090 99	0.6	4190
11144	Q (1, 9 ; 22)	GR	←	(0, 8 ; 22)	GR	E	276.148 01	5.8	9619
*11145	R (3, 2 ; 26)	GR	←	(3, 1 ; 25)	GR	E	276.164 18	0.2	2871
11146	P (1, 0 $^+$; 4)	GR	←	(0, 1 $^-$; 5)	GR	A	276.233 14	3.9	7904
11147	Q (1, 9 ; 21)	GR	←	(0, 8 ; 21)	GR	E	276.233 14	−4.9	7904
*11148	R (3, 1 $^+$; 24)	GR	←	(3, 0 $^+$; 23)	GR	A	276.251 74	0.1	1881
*11149	R (3, −1 ; 25)	GR	←	(3, 0 ; 24)	GR	E	276.285 84	−1.9	2079
*11150	R (2, 3 ; 17)	GR	←	(1, 2 $^-$; 16)	GR	A	276.293 80	−0.5	1683
*11151	R (2, 3 ; 17)	GR	←	(1, 2 $^+$; 16)	GR	A	276.310 43	0.6	1881
*11152	Q (1, 9 ; 20)	GR	←	(0, 8 ; 20)	GR	E	276.317 56	0.4	5142
*11153	P (1, 6 ; 24)	GR	←	(0, 5 ; 25)	GR	E	276.364 87	1.0	1238
*11154	Q (1, 9 ; 19)	GR	←	(0, 8 ; 19)	GR	E	276.398 48	−0.1	5333
*11155	Q (1, 9 ; 18)	GR	←	(0, 8 ; 18)	GR	E	276.476 50	0.0	5619
*11156	R (4, −1 ; 23)	GR	←	(3, −2 ; 22)	GR	E	276.513 96	0.0	1584
*11157	Q (1, 9 ; 17)	GR	←	(0, 8 ; 17)	GR	E	276.551 30	−0.2	5714
*11158	Q (2, 1 ; 22)	GR	←	(1, 2 ; 22)	GR	E	276.563 99	−1.1	1683
*11159	R (1, −4 ; 25)	GR	←	(0, −3 ; 24)	GR	E	276.595 20	0.6	5940
*11160	R (1, −7 ; 30)	GR	←	(0, −6 ; 29)	GR	E	276.602 97	1.0	2376
*11161	R (1, 2 ; 21)	GR	←	(0, 3 ; 20)	GR	E	276.610 96	2.8	6336
*11162	Q (1, 9 ; 16)	GR	←	(0, 8 ; 16)	GR	E	276.622 84	0.5	5904
*11163	Q (2, 1 ; 21)	GR	←	(1, 2 ; 21)	GR	E	276.632 56	1.2	1683
*11164	Q (1, 9 ; 15)	GR	←	(0, 8 ; 15)	GR	E	276.690 85	0.1	5809
*11165	Q (2, 1 ; 20)	GR	←	(1, 2 ; 20)	GR	E	276.697 17	4.2	2952
*11166	R (1, 3 ; 18)	GR	←	(0, 2 $^+$; 17)	GR	A	276.740 65	1.4	7227
*11167	Q (1, 9 ; 14)	GR	←	(0, 8 ; 14)	GR	E	276.755 29	0.1	5809
*11168	Q (2, 1 ; 19)	GR	←	(1, 2 ; 19)	GR	E	276.756 58	−1.9	1943
*11169	Q (2, 1 ; 18)	GR	←	(1, 2 ; 18)	GR	E	276.813 09	1.2	3047
*11170	Q (1, 9 ; 13)	GR	←	(0, 8 ; 13)	GR	E	276.815 92	−1.2	5523
*11171	Q (2, 1 ; 17)	GR	←	(1, 2 ; 17)	GR	E	276.865 40	−0.1	2277
*11172	Q (1, 9 ; 12)	GR	←	(0, 8 ; 12)	GR	E	276.872 91	0.8	6095
*11173	Q (2, 1 ; 16)	GR	←	(1, 2 ; 16)	GR	E	276.914 05	−0.4	2673
*11174	Q (1, 9 ; 11)	GR	←	(0, 8 ; 11)	GR	E	276.925 82	0.5	5047
*11175	R (1, 5 ; 27)	GR	←	(0, 4 $^+$; 26)	GR	A	276.955 37	−0.3	3465

Index	upper state T (n, K ; J)	v	←	lower state (n, K ; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*11176	Q (2, 1 ; 15)	GR	←	(1, 2 ; 15)	GR	E	276.959 25	0.6	2772
*11177	R (1, 5 ; 27)	GR	←	(0, 4 $^-$; 26)	GR	A	276.971 07	0.8	3168
*11178	Q (1, 9 ; 10)	GR	←	(0, 8 ; 10)	GR	E	276.974 74	0.4	4380
11179	Q (2, 1 ; 14)	GR	←	(1, 2 ; 14)	GR	E	277.001 77	8.1	7425
*11180	R (1, 3 ; 18)	GR	←	(0, 2 $^-$; 17)	GR	A	277.001 77	−2.9	7425
*11181	Q (1, 9 ; 9)	GR	←	(0, 8 ; 9)	GR	E	277.019 41	−0.3	3238
*11182	Q (2, 1 ; 13)	GR	←	(1, 2 ; 13)	GR	E	277.039 18	−0.7	4059
*11183	P (1, −5 ; 25)	GR	←	(0, −4 ; 26)	GR	E	277.049 63	−0.8	1714
*11184	Q (2, 1 ; 12)	GR	←	(1, 2 ; 12)	GR	E	277.074 52	0.4	2772
*11185	R (1, −1 ; 5)	GR	←	(0, −2 ; 4)	GR	E	277.084 87	−0.2	2574
*11186	R (1, −6 ; 13)	GR	←	(0, −5 ; 12)	GR	E	277.091 32	1.3	7524
*11187	Q (2, 1 ; 11)	GR	←	(1, 2 ; 11)	GR	E	277.106 49	0.2	3428
*11188	Q (2, 1 ; 10)	GR	←	(1, 2 ; 10)	GR	E	277.135 56	−0.6	2871
*11189	Q (2, 1 ; 9)	GR	←	(1, 2 ; 9)	GR	E	277.161 74	0.1	2772
*11190	Q (2, 1 ; 8)	GR	←	(1, 2 ; 8)	GR	E	277.184 94	−0.5	2857
*11191	Q (2, 1 ; 7)	GR	←	(1, 2 ; 7)	GR	E	277.205 53	0.4	3142
*11192	R (1, 9 ; 16)	GR	←	(0, 8 ; 15)	GR	A	277.209 84	1.1	8019
*11193	Q (2, 1 ; 6)	GR	←	(1, 2 ; 6)	GR	E	277.223 32	−0.7	2277
*11194	Q (2, 1 ; 5)	GR	←	(1, 2 ; 5)	GR	E	277.238 53	−0.7	2079
*11195	Q (2, 1 ; 4)	GR	←	(1, 2 ; 4)	GR	E	277.250 90	−2.1	1782
*11196	Q (2, 1 ; 3)	GR	←	(1, 2 ; 3)	GR	E	277.261 16	0.3	1485
*11197	Q (2, 1 ; 2)	GR	←	(1, 2 ; 2)	GR	E	277.268 89	3.3	1584
*11198	P (1, 8 ; 16)	GR	←	(0, 7 ; 17)	GR	A	277.273 96	−1.0	1904
*11199	R (1, 8 ; 24)	GR	←	(0, 7 ; 23)	GR	E	277.280 02	−0.3	6039
*11200	P (2, 6 ; 20)	GR	←	(0, 7 ; 21)	GR	E	277.286 44	1.6	1333
*11201	R (1, 5 ; 29)	GR	←	(0, 4 ; 28)	GR	E	277.293 74	1.6	4752
*11202	R (1, 8 ; 17)	GR	←	(0, 8 ; 16)	GR	A	277.340 88	0.1	2574
11203	R (1, −5 ; 19)	GR	←	(0, −6 ; 18)	GR	E	277.359 25	3.9	4455
*11204	R (1, 2 ; 9)	GR	←	(0, 1 ; 8)	GR	E	277.384 31	0.5	7326
*11205	R (1, 4 ; 25)	GR	←	(0, 5 ; 24)	GR	A	277.403 62	−0.7	6930
*11206	R (1, −2 ; 18)	GR	←	(0, −1 ; 17)	GR	E	277.529 55	1.1	4455
*11207	P (1, 4 ; 13)	GR	←	(0, 3 $^-$; 14)	GR	A	277.579 65	0.0	2857
*11208	P (1, 4 ; 13)	GR	←	(0, 3 $^+$; 14)	GR	A	277.586 15	−0.3	2666
*11209	R (3, 2 ; 27)	GR	←	(3, 1 ; 26)	GR	E	277.668 92	0.8	2449
*11210	P (1, 7 ; 15)	GR	←	(0, 6 ; 16)	GR	A	277.726 09	0.4	3809
*11211	R (3, 1 $^+$; 25)	GR	←	(3, 0 $^+$; 24)	GR	A	277.758 42	−0.4	1980
*11212	R (3, −1 ; 26)	GR	←	(3, 0 ; 25)	GR	E	277.790 43	−2.1	2079
*11213	R (2, 3 ; 18)	GR	←	(1, 2 $^-$; 17)	GR	A	277.833 74	−0.3	1485
*11214	R (2, 3 ; 18)	GR	←	(1, 2 $^+$; 17)	GR	A	277.854 56	0.0	1386
*11215	R (1, −7 ; 31)	GR	←	(0, −6 ; 30)	GR	E	277.864 70	−0.6	2178
*11216	P (1, 0 $^+$; 3)	GR	←	(0, 1 $^-$; 4)	GR	A	277.887 81	0.2	6380
*11217	R (4, −1 ; 24)	GR	←	(3, −2 ; 23)	GR	E	278.025 44	0.1	1287
*11218	R (1, 2 ; 22)	GR	←	(0, 3 ; 21)	GR	E	278.049 42	0.3	3663
*11219	P (1, 6 ; 23)	GR	←	(0, 5 ; 24)	GR	E	278.096 42	−1.8	2380
*11220	R (1, −4 ; 26)	GR	←	(0, −3 ; 25)	GR	E	278.105 88	1.9	6039
*11221	Q (1, −1 ; 10)	GR	←	(0, 0 ; 10)	GR	E	278.132 54	2.3	9047
*11222	Q (1, −1 ; 9)	GR	←	(0, 0 ; 9)	GR	E	278.132 54	−3.0	9047
*11223	Q (1, −1 ; 8)	GR	←	(0, 0 ; 8)	GR	E	278.140 26	2.9	9333
*11224	Q (1, −1 ; 11)	GR	←	(0, 0 ; 11)	GR	E	278.140 26	−1.1	9333
*11225	Q (1, −1 ; 7)	GR	←	(0, 0 ; 7)	GR	E	278.151 83	0.4	7904
*11226	Q (1, −1 ; 12)	GR	←	(0, 0 ; 12)	GR	E	278.159 59	0.3	7809
*11227	Q (1, −1 ; 6)	GR	←	(0, 0 ; 6)	GR	E	278.166 42	0.4	7428
*11228	Q (1, −1 ; 5)	GR	←	(0, 0 ; 5)	GR	E	278.182 11	0.9	7029
*11229	Q (1, −1 ; 13)	GR	←	(0, 0 ; 13)	GR	E	278.191 73	0.6	7904
*11230	Q (1, −1 ; 4)	GR	←	(0, 0 ; 4)	GR	E	278.197 45	0.5	6930
*11231	R (1, 3 ; 19)	GR	←	(0, 2 $^+$; 18)	GR	A	278.208 73	2.5	7524
*11232	Q (1, −1 ; 3)	GR	←	(0, 0 ; 3)	GR	E	278.211 21	0.5	6435
*11233	Q (1, −1 ; 2)	GR	←	(0, 0 ; 2)	GR	E	278.222 37	0.0	5643
*11234	Q (1, −1 ; 1)	GR	←	(0, 0 ; 1)	GR	E	278.230 34	0.9	4257
*11235	Q (1, −1 ; 14)	GR	←	(0, 0 ; 14)	GR	E	278.238 89	0.7	8190
*11236	Q (1, −1 ; 15)	GR	←	(0, 0 ; 15)	GR	E	278.302 93	0.1	7619
*11237	R (1, 5 ; 28)	GR	←	(0, 4 $^+$; 27)	GR	A	278.312 51	−0.1	3069
*11238	R (1, 5 ; 28)	GR	←	(0, 4 $^-$; 27)	GR	A	278.333 34	−0.3	2970
*11239	Q (1, −1 ; 16)	GR	←	(0, 0 ; 16)	GR	E	278.385 69	−0.1	7428
*11240	Q (1, −1 ; 17)	GR	←	(0, 0 ; 17)	GR	E	278.488 58	0.5	7428
*11241	R (2, 5 ; 5)	GR	←	(1, 4 ; 4)	GR	A	278.525 51	0.1	6732
*11242	R (1, 3 ; 19)	GR	←	(0, 2 $^-$; 18)	GR	A	278.534 25	−2.6	6930
*11243	R (1, −6 ; 14)	GR	←	(0, −5 ; 13)	GR	E	278.595 13	−0.4	6237
*11244	Q (1, −1 ; 18)	GR	←	(0, 0 ; 18)	GR	E	278.612 67	0.8	7425
*11245	R (1, −1 ; 6)	GR	←	(0, −2 ; 5)	GR	E	278.633 73	−0.6	2871
*11246	P (1, −5 ; 24)	GR	←	(0, −4 ; 25)	GR	E	278.637 80	0.4	1523
*11247	R (1, 9 ; 17)	GR	←	(0, 8 ; 16)	GR	A	278.712 97	0.6	7326
*11248	Q (1, −1 ; 19)	GR	←	(0, 0 ; 19)	GR	E	278.759 12	0.9	6930
*11249	R (1, 8 ; 25)	GR	←	(0, 7 ; 24)	GR	E	278.807 01	−0.7	4851
*11250	R (1, 8 ; 18)	GR	←	(0, 8 ; 17)	GR	A	278.809 43	1.1	2277



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*11251	R (1, −5 ; 20) GR	←	(0, −6 ; 19) GR	E	278.885 42	0.4	3267
*11252	R (1, 2 ; 10) GR	←	(0, 1 ; 9) GR	E	278.913 90	0.5	7128
*11253	Q (1, −1 ; 20) GR	←	(0, 0 ; 20) GR	E	278.928 48	0.3	7142
*11254	P (1, 8 ; 15) GR	←	(0, 7 ; 16) GR	A	278.932 44	2.6	1714
*11255	R (1, 5 ; 30) GR	←	(0, 4 ; 29) GR	E	278.946 17	−1.1	4752
*11256	P (2, 6 ; 19) GR	←	(0, 7 ; 20) GR	E	278.958 42	−0.1	1333
*11257	R (1, 4 ; 26) GR	←	(0, 5 ; 25) GR	A	279.018 82	0.8	6039
*11258	R (1, −2 ; 19) GR	←	(0, −1 ; 18) GR	E	279.086 93	0.2	4851
*11259	R (1, −7 ; 32) GR	←	(0, −6 ; 31) GR	E	279.107 73	1.0	1782
*11260	Q (1, −1 ; 21) GR	←	(0, 0 ; 21) GR	E	279.121 38	0.9	7047
11261	R (3, 2 ; 28) GR	←	(3, 1 ; 27) GR	E	279.170 10	−8.5	6534
*11262	P (1, 4 ; 12) GR	←	(0, 3 −; 13) GR	A	279.186 91	−0.1	3428
*11263	P (1, 4 ; 12) GR	←	(0, 3 +; 13) GR	A	279.191 18	0.3	3047
*11264	R (3, −1 ; 27) GR	←	(3, 0 ; 26) GR	E	279.291 94	0.9	2079
*11265	Q (1, −1 ; 22) GR	←	(0, 0 ; 22) GR	E	279.338 08	0.9	6380
*11266	P (1, 7 ; 14) GR	←	(0, 6 ; 15) GR	A	279.357 98	−2.2	3809
*11267	R (2, 3 ; 19) GR	←	(1, 2 −; 18) GR	A	279.372 66	0.7	1386
*11268	R (2, 3 ; 19) GR	←	(1, 2 +; 18) GR	A	279.398 73	1.7	1980
*11269	R (1, 2 ; 23) GR	←	(0, 3 ; 22) GR	E	279.477 64	2.3	6039
*11270	R (1, 3 ; 3) GR	←	(0, 2 ; 2) GR	E	279.503 60	2.2	5904
*11271	P (1, 0 +; 2) GR	←	(0, 1 −; 3) GR	A	279.526 32	−0.2	5809
*11272	R (4, −1 ; 25) GR	←	(3, −2 ; 24) GR	E	279.534 08	0.5	1238
*11273	Q (1, −1 ; 23) GR	←	(0, 0 ; 23) GR	E	279.578 80	0.6	6190
*11274	R (1, −4 ; 27) GR	←	(0, −3 ; 26) GR	E	279.617 87	0.2	5049
*11275	R (1, 5 ; 29) GR	←	(0, 4 +; 28) GR	A	279.654 44	0.6	2277
*11276	R (1, 3 ; 20) GR	←	(0, 2 +; 19) GR	A	279.669 10	3.8	7809
*11277	R (1, 5 ; 29) GR	←	(0, 4 −; 28) GR	A	279.682 22	1.4	3366
*11278	R (1, −1 ; 1) GR	←	(0, 0 ; 0) GR	E	279.805 01	0.3	3267
*11279	P (1, 6 ; 22) GR	←	(0, 5 ; 23) GR	E	279.818 56	−0.5	2285
*11280	Q (1, −1 ; 24) GR	←	(0, 0 ; 24) GR	E	279.843 64	−0.9	6000
*11281	R (1, 3 ; 20) GR	←	(0, 2 −; 19) GR	A	280.069 59	−3.8	6761
*11282	R (2, 5 ; 6) GR	←	(1, 4 ; 5) GR	A	280.081 02	0.2	6380
*11283	R (1, −6 ; 15) GR	←	(0, −5 ; 14) GR	E	280.092 80	1.0	6761
*11284	Q (1, −1 ; 25) GR	←	(0, 0 ; 25) GR	E	280.132 61	−0.8	5714
*11285	R (1, −1 ; 7) GR	←	(0, −2 ; 6) GR	E	280.177 17	−0.4	3523
*11286	R (1, 9 ; 18) GR	←	(0, 8 ; 17) GR	A	280.209 89	−0.6	7333
*11287	P (1, −5 ; 23) GR	←	(0, −4 ; 24) GR	E	280.230 97	1.0	1619
*11288	R (1, 8 ; 19) GR	←	(0, 8 ; 18) GR	A	280.271 20	0.8	3523
*11289	R (1, −7 ; 33) GR	←	(0, −6 ; 32) GR	E	280.331 21	1.4	6857
*11290	R (1, 8 ; 26) GR	←	(0, 7 ; 25) GR	E	280.334 33	−1.0	4571
*11291	R (1, −5 ; 21) GR	←	(0, −6 ; 20) GR	E	280.412 76	0.5	3523
*11292	R (1, 2 ; 11) GR	←	(0, 1 ; 10) GR	E	280.438 41	−0.9	7428
*11293	Q (1, −1 ; 26) GR	←	(0, 0 ; 26) GR	E	280.445 64	−0.1	5142
*11294	P (1, 8 ; 14) GR	←	(0, 7 ; 15) GR	A	280.585 35	0.2	1714
*11295	R (1, 5 ; 31) GR	←	(0, 4 ; 30) GR	E	280.606 99	1.0	4000
*11296	P (2, 6 ; 18) GR	←	(0, 7 ; 19) GR	E	280.626 85	0.1	1714
*11297	R (1, 4 ; 27) GR	←	(0, 5 ; 26) GR	A	280.641 89	1.2	6000
*11298	R (1, −2 ; 20) GR	←	(0, −1 ; 19) GR	E	280.650 74	1.5	4476
*11299	R (3, 2 ; 29) GR	←	(3, 1 ; 28) GR	E	280.669 87	1.1	2095
*11300	Q (1, −1 ; 27) GR	←	(0, 0 ; 27) GR	E	280.782 67	−0.2	4476
*11301	R (3, −1 ; 28) GR	←	(3, 0 ; 27) GR	E	280.790 43	−0.7	1619
*11302	P (1, 4 ; 11) GR	←	(0, 3 −; 12) GR	A	280.794 92	0.8	2761
*11303	P (1, 4 ; 11) GR	←	(0, 3 +; 12) GR	A	280.797 44	−0.2	2666
*11304	R (1, 2 ; 24) GR	←	(0, 3 ; 23) GR	E	280.894 39	0.0	4000
*11305	R (2, 3 ; 20) GR	←	(1, 2 −; 19) GR	A	280.910 48	0.1	1523
*11306	R (2, 3 ; 20) GR	←	(1, 2 +; 19) GR	A	280.942 65	0.3	1904
*11307	R (1, 5 ; 30) GR	←	(0, 4 +; 29) GR	A	280.980 48	0.7	2285
*11308	P (1, 7 ; 13) GR	←	(0, 6 ; 14) GR	A	280.987 37	−0.3	3809
*11309	R (1, 5 ; 30) GR	←	(0, 4 −; 29) GR	A	281.016 58	−0.8	2666
*11310	R (4, −1 ; 26) GR	←	(3, −2 ; 25) GR	E	281.039 86	1.0	1333
*11311	R (1, 3 ; 4) GR	←	(0, 2 ; 3) GR	E	281.060 78	1.3	5523
*11312	R (1, 3 ; 21) GR	←	(0, 2 +; 20) GR	A	281.121 22	5.4	6952
*11313	R (1, −4 ; 28) GR	←	(0, −3 ; 27) GR	E	281.131 96	−0.4	5142
*11314	Q (1, −1 ; 28) GR	←	(0, 0 ; 28) GR	E	281.143 48	−0.8	4380
*11315	P (1, 0 +; 1) GR	←	(0, 1 −; 2) GR	A	281.148 11	−0.4	5333
*11316	R (1, −1 ; 2) GR	←	(0, 0 ; 1) GR	E	281.371 61	0.4	4380
*11317	Q (1, −1 ; 29) GR	←	(0, 0 ; 29) GR	E	281.527 71	−0.3	3904
*11318	P (1, 6 ; 21) GR	←	(0, 5 ; 22) GR	E	281.530 48	−1.5	2285
*11319	R (1, −6 ; 16) GR	←	(0, −5 ; 15) GR	E	281.583 80	−0.1	6190
*11320	R (1, 3 ; 21) GR	←	(0, 2 −; 20) GR	A	281.608 73	−3.4	6761
*11321	R (2, 5 ; 7) GR	←	(1, 4 ; 6) GR	A	281.633 04	0.4	6476
*11322	R (1, 9 ; 19) GR	←	(0, 8 ; 18) GR	A	281.700 36	−0.7	7428
*11323	R (1, −1 ; 8) GR	←	(0, −2 ; 7) GR	E	281.714 73	0.9	4095
*11324	R (1, 8 ; 20) GR	←	(0, 8 ; 19) GR	A	281.726 31	0.6	2666
*11325	P (1, −5 ; 22) GR	←	(0, −4 ; 23) GR	E	281.828 40	−0.2	2952

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*11326	R (1, 8 ; 27) GR	←	(0, 7 ; 26) GR	E	281.861 75	−0.6	4190
*11327	Q (1, −1 ; 30) GR	←	(0, 0 ; 30) GR	E	281.932 91	−1.5	4000
*11328	R (1, −5 ; 22) GR	←	(0, −6 ; 21) GR	E	281.941 18	0.7	3904
*11329	R (1, 2 ; 12) GR	←	(0, 1 ; 11) GR	E	281.957 99	0.3	7428
*11330	R (3, 2 ; 30) GR	←	(3, 1 ; 29) GR	E	282.165 49	−0.4	2095
*11331	R (1, −2 ; 21) GR	←	(0, −1 ; 20) GR	E	282.221 18	1.0	4095
*11332	P (1, 8 ; 13) GR	←	(0, 7 ; 14) GR	A	282.233 90	1.1	1714
*11333	R (1, 4 ; 28) GR	←	(0, 5 ; 27) GR	A	282.272 73	−0.5	5523
*11334	R (1, 5 ; 32) GR	←	(0, 4 ; 31) GR	E	282.275 21	1.4	3904
*11335	R (3, −1 ; 29) GR	←	(3, 0 ; 28) GR	E	282.285 48	0.7	1904
11336	P (2, 6 ; 17) GR	←	(0, 7 ; 18) GR	E	282.290 35	−7.2	2380
*11337	R (1, 2 ; 25) GR	←	(0, 3 ; 24) GR	E	282.299 77	1.6	3333
11338	P (1, 4 ; 10) GR	←	(0, 3 −; 11) GR	A	282.403 15	4.6	2952
11339	P (1, 4 ; 10) GR	←	(0, 3 +; 11) GR	A	282.405 05	8.8	3523
*11340	R (2, 3 ; 21) GR	←	(1, 2 −; 20) GR	A	282.447 70	−0.2	1619
*11341	R (2, 3 ; 21) GR	←	(1, 2 +; 20) GR	A	282.486 99	1.1	0
*11342	R (4, −1 ; 27) GR	←	(3, −2 ; 26) GR	E	282.542 85	0.8	1428
*11343	R (1, 3 −; 22) GR	←	(0, 2 +; 21) GR	A	282.565 16	0.8	6666
*11344	R (1, 3 ; 5) GR	←	(0, 2 ; 4) GR	E	282.612 59	2.9	6476
11345	P (1, 7 ; 12) GR	←	(0, 6 ; 13) GR	A	282.612 59	−5.9	6476
*11346	R (1, −4 ; 29) GR	←	(0, −3 ; 28) GR	E	282.648 22	0.2	4476
*11347	P (1, 0 +; 0) GR	←	(0, 1 −; 1) GR	A	282.753 18	0.8	4571
*11348	R (1, −1 ; 3) GR	←	(0, 0 ; 2) GR	E	282.934 35	0.8	5428
*11349	R (1, −6 ; 17) GR	←	(0, −5 ; 16) GR	E	283.068 06	0.0	6285
*11350	R (1, 3 +; 22) GR	←	(0, 2 −; 21) GR	A	283.152 41	0.7	6666
*11351	R (1, 8 ; 21) GR	←	(0, 8 ; 20) GR	A	283.174 64	−0.3	2476
*11352	R (2, 5 ; 8) GR	←	(1, 4 ; 7) GR	A	283.181 24	1.1	6476
*11353	R (1, 9 ; 20) GR	←	(0, 8 ; 19) GR	A	283.183 98	−1.5	6857
*11354	P (1, 6 ; 20) GR	←	(0, 5 ; 21) GR	E	283.232 85	−0.6	2476
*11355	R (1, −1 ; 9) GR	←	(0, −2 ; 8) GR	E	283.245 51	0.5	4190
*11356	R (1, 8 ; 28) GR	←	(0, 7 ; 27) GR	E	283.389 7	−0.5	3809
*11357	P (1, −5 ; 21) GR	←	(0, −4 ; 22) GR	E	283.430 14	0.6	2000
*11358	R (1, −5 ; 23) GR	←	(0, −6 ; 22) GR	E	283.471 17	0.4	2866
*11359	R (1, 2 ; 13) GR	←	(0, 1 ; 12) GR	E	283.472 19	−1.5	7619
*11360	R (2, 1 ; 4) GR	←	(1, 2 ; 3) GR	E	283.532 43	−3.5	952
11361	R (3, 2 ; 31) GR	←	(3, 1 ; 30) GR	E	283.657 90	−6.4	3809
*11362	R (1, 2 ; 26) GR	←	(0, 3 ; 25) GR	E	283.692 92	2.5	3047
*11363	R (3, −1 ; 30) GR	←	(3, 0 ; 29) GR	E	283.777 67	1.2	1523
*11364	R (1, −2 ; 22) GR	←	(0, −1 ; 21) GR	E	283.799 47	1.0	4000
11365	P (1, 8 ; 12) GR	←	(0, 7 ; 13) GR	A	283.876 87	−5.0	3714
*11366	R (1, 4 ; 29) GR	←	(0, 5 ; 28) GR	A	283.911 39	0.1	5523
*11367	R (1, 5 ; 33) GR	←	(0, 4 ; 32) GR	E	283.950 83	1.6	3809
*11368	P (2, 6 ; 16) GR	←	(0, 7 ; 17) GR	E	283.950 83	−1.8	3809
*11369	R (1, 3 −; 23) GR	←	(0, 2 +; 22) GR	A	284.000 67	−0.2	6285
*11370	P (1, 4 ; 9) GR	←	(0, 3 ; 10) GR	A	284.010 30	−1.1	3809
*11371	R (1, 3 ; 6) GR	←	(0, 2 ; 5) GR	E	284.157 41	0.5	5523
*11372	R (1, −4 ; 30) GR	←	(0, −3 ; 29) GR	E	284.166 94	0.2	3904
*11373	P (1, 7 ; 11) GR	←	(0, 6 ; 12) GR	A	284.235 60	−0.2	3333
*11374	Q (1, 0 +; 1) GR	←	(0, 1 +; 1) GR	A	284.350 37	−1.0	6000
*11375	Q (1, 0 +; 2) GR	←	(0, 1 +; 2) GR	A	284.369 41	0.1	6476
*11376	Q (1, 0 +; 3) GR	←	(0, 1 +; 3) GR	A	284.397 92	0.2	7047
*11377	Q (1, 0 +; 4) GR	←	(0, 1 +; 4) GR	A	284.436 09	0.2	7809
*11378	Q (1, 0 +; 5) GR	←	(0, 1 +; 5) GR	A	284.484 13	0.4	7809
*11379	R (1, −1 ; 4) GR	←	(0, 0 ; 3) GR	E	284.493 62	0.3	5809
*11380	Q (1, 0 +; 6) GR	←	(0, 1 +; 6) GR	A	284.542 11	0.2	8285
*11381	R (1, −6 ; 18) GR	←	(0, −5 ; 17) GR	E	284.545 22	−0.2	6095
*11382	Q (1, 0 +; 7) GR	←	(0, 1 +; 7) GR	A	284.610 45	0.4	8190
*11383	R (1, 8 ; 22) GR	←	(0, 8 ; 21) GR	A	284.615 72	−0.2	2380
*11384	R (1, 9 ; 21) GR	←	(0, 8 ; 20) GR	A	284.660 64	0.6	6476
*11385	Q (1, 0 +; 8) GR	←	(0, 1 +; 8) GR	A	284.689 29	0.5	8095
*11386	R (1, 3 +; 23) GR	←	(0, 2 −; 22) GR	A	284.701 64	1.3	6190
*11387	R (2, 5 ; 9) GR	←	(1, 4 ; 8) GR	A	284.724 82	−0.1	6571
*11388	R (1, −1 ; 10) GR	←	(0, −2 ; 9) GR	E	284.768 79	−0.1	4476
*11389	Q (1, 0 +; 9) GR	←	(0, 1 +; 9) GR	A	284.778 99	0.7	8190
*11390	Q (1, 0 +; 10) GR	←	(0, 1 +; 10) GR	A	284.879 84	0.3	8190
*11391	R (1, 8 ; 29) GR	←	(0, 7 ; 28) GR	E	284.915 89	0.2	3904
*11392	P (1, 6 ; 19) GR	←	(0, 5 ; 20) GR	E	284.925 28	0.4	2190
*11393	R (1, 2 ; 14) GR	←	(0, 1 ; 13) GR	E	284.981 54	0.5	7428
*11394	Q (1, 0 +; 11) GR	←	(0, 1 +; 11) GR	A	284.992 26	0.9	8285
*11395	R (1, −5 ; 24) GR	←	(0, −6 ; 23) GR	E	285.002 90	0.2	3238
*11396	P (1, −5 ; 20) GR	←	(0, −4 ; 21) GR	E	285.035 02	−1.5	2761
*11397	R (1, 2 ; 27) GR	←	(0, 3 ; 26) GR	E	285.073 49	−0.2	2952
*11398	R (2, 1 ; 5) GR	←	(1, 2 ; 4) GR	E	285.090 52	0.2	1142
*11399	Q (1, 0 +; 12) GR	←	(0, 1 +; 12) GR	A	285.116 49	0.3	8476
*11400	R (1, 10 ; 10) GR	←	(0, 9 ; 9) GR	A	285.129 01	−0.5	8666



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
*11401	Q (1, 0 +; 13) GR	←	(0, 1 +; 13) GR	A	285.253 12	0.4	8285
*11402	R (3, −1 ; 31) GR	←	(3, 0 ; 30) GR	E	285.265 89	0.0	1619
*11403	R (1, −2 ; 23) GR	←	(0, −1 ; 22) GR	E	285.386 05	−1.0	3333
*11404	Q (1, 0 +; 14) GR	←	(0, 1 +; 14) GR	A	285.402 45	0.1	8285
*11405	R (1, 3 −; 24) GR	←	(0, 2 +; 23) GR	A	285.427 83	0.3	5809
*11406	P (1, 8 ; 11) GR	←	(0, 7 ; 12) GR	A	285.516 14	1.2	1428
*11407	R (1, 4 ; 30) GR	←	(0, 5 ; 29) GR	A	285.557 47	0.3	4571
*11408	Q (1, 0 +; 15) GR	←	(0, 1 +; 15) GR	A	285.564 94	−0.1	8000
*11409	P (2, 6 ; 15) GR	←	(0, 7 ; 16) GR	E	285.606 43	−1.6	2000
*11410	P (1, 4 ; 8) GR	←	(0, 3 ; 9) GR	A	285.615 82	−0.4	3333
*11411	R (1, 5 ; 34) GR	←	(0, 4 ; 33) GR	E	285.633 16	2.5	2666
*11412	R (1, −4 ; 31) GR	←	(0, −3 ; 30) GR	E	285.688 39	1.1	3904
*11413	R (1, 3 ; 7) GR	←	(0, 2 ; 6) GR	E	285.694 94	0.5	6095
*11414	Q (1, 0 +; 16) GR	←	(0, 1 +; 16) GR	A	285.741 19	0.3	8380
*11415	P (1, 7 ; 10) GR	←	(0, 6 ; 11) GR	A	285.854 73	0.7	2857
*11416	Q (1, 0 +; 17) GR	←	(0, 1 +; 17) GR	A	285.931 51	0.5	8285
*11417	R (1, −6 ; 19) GR	←	(0, −5 ; 18) GR	E	286.015 08	−0.3	5809
*11418	R (1, 8 ; 23) GR	←	(0, 8 ; 22) GR	A	286.049 86	0.9	8190
*11419	R (1, −1 ; 5) GR	←	(0, 0 ; 4) GR	E	286.049 86	−3.1	8190
*11420	R (1, 9 ; 22) GR	←	(0, 8 ; 21) GR	A	286.129 91	1.2	6857
*11421	Q (1, 0 +; 18) GR	←	(0, 1 +; 18) GR	A	286.136 40	1.2	8000
*11422	R (1, 3 +; 24) GR	←	(0, 2 −; 23) GR	A	286.257 23	0.6	6095
*11423	R (2, 5 ; 10) GR	←	(1, 4 ; 9) GR	A	286.263 33	0.7	6571
*11424	R (1, −1 ; 11) GR	←	(0, −2 ; 10) GR	E	286.283 76	0.5	4761
*11425	Q (1, 0 +; 19) GR	←	(0, 1 +; 19) GR	A	286.356 44	0.1	7809
*11426	R (1, 2 ; 28) GR	←	(0, 3 ; 27) GR	E	286.441 18	0.2	2052
*11427	R (1, 8 ; 30) GR	←	(0, 7 ; 29) GR	E	286.442 27	1.6	2052
*11428	R (1, 2 ; 15) GR	←	(0, 1 ; 14) GR	E	286.485 45	−0.2	7428
*11429	R (1, −5 ; 25) GR	←	(0, −6 ; 24) GR	E	286.536 94	1.0	3238
*11430	Q (1, 0 +; 20) GR	←	(0, 1 +; 20) GR	A	286.592 09	−0.3	7238
*11431	P (1, 6 ; 18) GR	←	(0, 5 ; 19) GR	E	286.608 31	0.0	2476
*11432	P (1, −5 ; 19) GR	←	(0, −4 ; 20) GR	E	286.643 28	1.1	3333
*11433	R (2, 1 ; 6) GR	←	(1, 2 ; 5) GR	E	286.645 13	−2.1	2190
*11434	R (1, 10 ; 11) GR	←	(0, 9 ; 10) GR	A	286.651 03	−1.1	8285
*11435	Q (1, −8 ; 33) GR	←	(0, −7 ; 33) GR	E	286.738 32	−0.7	734
*11436	Q (1, −8 ; 32) GR	←	(0, −7 ; 32) GR	E	286.840 89	2.2	2380
*11437	Q (1, 0 +; 21) GR	←	(0, 1 +; 21) GR	A	286.843 80	−0.1	7714
*11438	R (1, 3 −; 25) GR	←	(0, 2 +; 24) GR	A	286.846 36	0.8	5714
*11439	Q (1, −8 ; 31) GR	←	(0, −7 ; 31) GR	E	286.942 94	0.7	2285
*11440	R (1, −2 ; 24) GR	←	(0, −1 ; 23) GR	E	286.981 90	1.1	3238
*11441	Q (1, −8 ; 30) GR	←	(0, −7 ; 30) GR	E	287.044 20	−0.3	2857
*11442	Q (1, 0 +; 22) GR	←	(0, 1 +; 22) GR	A	287.112 21	0.1	7142
*11443	Q (1, −8 ; 29) GR	←	(0, −7 ; 29) GR	E	287.144 98	1.1	2761
*11444	P (1, 8 ; 10) GR	←	(0, 7 ; 11) GR	A	287.149 70	−1.0	1142
*11445	R (1, −4 ; 32) GR	←	(0, −3 ; 31) GR	E	287.212 42	−0.8	2857
*11446	R (1, 4 ; 31) GR	←	(0, 5 ; 30) GR	A	287.219 58	1.9	3142
*11447	P (1, 4 ; 7) GR	←	(0, 3 ; 8) GR	A	287.219 58	−0.1	3142
*11448	R (1, 3 ; 8) GR	←	(0, 2 ; 7) GR	E	287.224 01	1.0	5904
*11449	Q (1, −8 ; 28) GR	←	(0, −7 ; 28) GR	E	287.244 37	−0.6	3619
*11450	P (2, 6 ; 14) GR	←	(0, 7 ; 15) GR	E	287.257 88	1.0	2285
*11451	R (1, 5 ; 35) GR	←	(0, 4 ; 34) GR	E	287.321 95	0.0	2190
*11452	Q (1, −8 ; 27) GR	←	(0, −7 ; 27) GR	E	287.342 82	0.0	3333
*11453	Q (1, 0 +; 23) GR	←	(0, 1 +; 23) GR	A	287.397 66	0.8	7047
*11454	Q (1, −8 ; 26) GR	←	(0, −7 ; 26) GR	E	287.439 42	0.1	3714
*11455	R (1, 0 +; 2) GR	←	(0, 1 −; 1) GR	A	287.465 78	0.7	3047
*11456	P (1, 7 ; 9) GR	←	(0, 6 ; 10) GR	A	287.470 07	0.3	2380
11457	R (1, 8 ; 24) GR	←	(0, 8 ; 23) GR	A	287.477 10	5.3	6000
*11458	R (1, −6 ; 20) GR	←	(0, −5 ; 19) GR	E	287.477 10	−0.7	6000
*11459	Q (1, −8 ; 25) GR	←	(0, −7 ; 25) GR	E	287.534 46	0.1	4190
*11460	R (1, 9 ; 23) GR	←	(0, 8 ; 22) GR	A	287.591 37	1.0	5809
*11461	R (1, −1 ; 6) GR	←	(0, 0 ; 5) GR	E	287.605 16	0.4	6571
*11462	Q (1, −8 ; 24) GR	←	(0, −7 ; 24) GR	E	287.627 54	0.2	4476
*11463	Q (1, 0 +; 24) GR	←	(0, 1 +; 24) GR	A	287.700 71	0.2	6476
*11464	Q (1, −8 ; 23) GR	←	(0, −7 ; 23) GR	E	287.718 49	1.3	4571
*11465	R (1, −1 ; 12) GR	←	(0, −2 ; 11) GR	E	287.789 45	1.0	5047
11466	R (1, 2 ; 29) GR	←	(0, 3 ; 28) GR	E	287.795 89	2.9	7047
*11467	R (2, 5 ; 11) GR	←	(1, 4 ; 10) GR	A	287.795 89	−0.4	7047
*11468	Q (1, −8 ; 22) GR	←	(0, −7 ; 22) GR	E	287.807 04	0.2	4952
*11469	R (1, 3 +; 25) GR	←	(0, 2 −; 24) GR	A	287.820 14	0.6	5333
*11470	Q (1, −8 ; 21) GR	←	(0, −7 ; 21) GR	E	287.893 16	1.8	5333
*11471	R (1, 8 ; 31) GR	←	(0, 7 ; 30) GR	E	287.967 07	−0.2	2285
*11472	Q (1, −8 ; 20) GR	←	(0, −7 ; 20) GR	E	287.976 34	−0.1	5904
*11473	R (1, 2 ; 16) GR	←	(0, 1 ; 15) GR	E	287.984 15	0.0	6857
*11474	Q (1, 0 +; 25) GR	←	(0, 1 +; 25) GR	A	288.021 91	−0.4	6095
*11475	Q (1, −8 ; 19) GR	←	(0, −7 ; 19) GR	E	288.056 87	0.8	5714

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
*11476	R (1, −5 ; 26) GR	←	(0, −6 ; 25) GR	E	288.073 29	−0.9	2761
*11477	Q (1, −8 ; 18) GR	←	(0, −7 ; 18) GR	E	288.134 38	0.5	5904
*11478	R (1, 10 ; 12) GR	←	(0, 9 ; 11) GR	A	288.168 68	0.8	8285
*11479	Q (1, −8 ; 17) GR	←	(0, −7 ; 17) GR	E	288.208 63	0.8	5904
*11480	P (1, −5 ; 18) GR	←	(0, −4 ; 19) GR	E	288.253 93	3.0	2952
*11481	R (1, 3 −; 26) GR	←	(0, 2 +; 25) GR	A	288.256 59	0.2	5047
*11482	Q (1, −8 ; 16) GR	←	(0, −7 ; 16) GR	E	288.279 59	0.1	6190
*11483	P (1, 6 ; 17) GR	←	(0, 5 ; 18) GR	E	288.282 05	0.4	2857
*11484	Q (1, −8 ; 15) GR	←	(0, −7 ; 15) GR	E	288.347 07	0.9	6285
*11485	Q (1, 0 +; 26) GR	←	(0, 1 +; 26) GR	A	288.361 62	0.3	5714
*11486	Q (1, −8 ; 14) GR	←	(0, −7 ; 14) GR	E	288.410 98	0.6	6380
*11487	Q (1, −8 ; 13) GR	←	(0, −7 ; 13) GR	E	288.471 18	0.5	6190
*11488	Q (1, −8 ; 12) GR	←	(0, −7 ; 12) GR	E	288.527 54	0.8	5904
*11489	Q (1, −8 ; 11) GR	←	(0, −7 ; 11) GR	E	288.579 91	0.3	5809
*11490	R (1, −2 ; 25) GR	←	(0, −1 ; 24) GR	E	288.587 10	0.2	2571
*11491	Q (1, −8 ; 10) GR	←	(0, −7 ; 10) GR	E	288.628 30	0.4	5333
*11492	Q (1, −8 ; 9) GR	←	(0, −7 ; 9) GR	E	288.672 58	0.3	5142
*11493	Q (1, −8 ; 8) GR	←	(0, −7 ; 8) GR	E	288.712 74	−0.1	3333
*11494	Q (1, 0 +; 27) GR	←	(0, 1 +; 27) GR	A	288.720 40	0.8	5333
*11495	R (1, −4 ; 33) GR	←	(0, −3 ; 32) GR	E	288.739 53	0.0	3047
*11496	R (1, 3 ; 9) GR	←	(0, 2 ; 8) GR	E	288.743 14	0.5	5904
*11497	P (1, 8 ; 9) GR	←	(0, 7 ; 10) GR	A	288.778 31	−0.5	1047
*11498	P (1, 4 ; 6) GR	←	(0, 3 ; 7) GR	A	288.821 04	−0.1	2476
*11499	R (1, 8 ; 25) GR	←	(0, 8 ; 24) GR	A	288.895 80	1.7	1904
*11500	P (2, 6 ; 13) GR	←	(0, 7 ; 14) GR	E	288.904 47	0.2	2000
*11501	R (1, −6 ; 21) GR	←	(0, −5 ; 20) GR	E	288.931 32	0.2	4857
*11502	R (1, 0 +; 3) GR	←	(0, 1 −; 2) GR	A	289.002 40	−0.1	4380
*11503	R (1, 5 ; 36) GR	←	(0, 4 ; 35) GR	E	289.017 14	0.0	2000
*11504	R (1, 9 ; 24) GR	←	(0, 8 ; 23) GR	A	289.044 92	0.2	5428
*11505	P (1, 7 ; 8) GR	←	(0, 6 ; 9) GR	A	289.081 80	1.1	1714
*11506	Q (1, 0 +; 28) GR	←	(0, 1 +; 28) GR	A	289.098 70	1.2	5428
*11507	R (1, 2 ; 30) GR	←	(0, 3 ; 29) GR	E	289.135 83	−4.3	5619
*11508	R (1, −1 ; 7) GR	←	(0, 0 ; 6) GR	E	289.159 49	0.3	6666
*11509	R (1, −1 ; 13) GR	←	(0, −2 ; 12) GR	E	289.284 31	0.5	5238
*11510	R (2, 5 ; 12) GR	←	(1, 4 ; 11) GR	A	289.321 93	0.2	6380
*11511	R (1, 3 +; 26) GR	←	(0, 2 −; 25) GR	A	289.391 22	−0.2	5142
*11512	R (1, 2 ; 17) GR	←	(0, 1 ; 16) GR	E	289.477 53	−0.4	7047
*11513	R (1, 8 ; 32) GR	←	(0, 7 ; 31) GR	E	289.490 93	−0.4	2285
*11514	Q (1, 0 +; 29) GR	←	(0, 1 +; 29) GR	A	289.496 90	1.0	4380
*11515	R (1, −5 ; 27) GR	←	(0, −6 ; 26) GR	E	289.612 79	1.1	2571
*11516	R (1, 3 −; 27) GR	←	(0, 2 +; 26) GR	A	289.658 41	−0.6	4666
*11517	R (1, 10 ; 13) GR	←	(0, 9 ; 12) GR	A	289.681 94	0.4	8190
*11518	R (2, 1 ; 8) GR	←	(1, 2 ; 7) GR	E	289.746 53	−0.2	1523
*11519	P (1, −5 ; 17) GR	←	(0, −4 ; 18) GR	E	289.865 88	−0.3	2666
*11520	Q (1, 0 +; 30) GR	←	(0, 1 +; 30) GR	A	289.915 46	0.6	3714
*11521	P (1, 6 ; 16) GR	←	(0, 5 ; 17) GR	E	289.946 87	−0.5	2952
*11522	R (1, −2 ; 26) GR	←	(0, −1 ; 25) GR	E	290.202 45	1.1	2380
*11523	R (1, 3 ; 10) GR	←	(0, 2 ; 9) GR	E	290.250 95	0.9	6000
*11524	R (1, −4 ; 34) GR	←	(0, −3 ; 33) GR	E	290.269 32	−1.6	2761
*11525	R (1, 8 ; 26) GR	←	(0, 8 ; 25) GR	A	290.306 96	−0.4	1714
*11526	Q (1, 0 +; 31) GR	←	(0, 1 +; 31) GR	A	290.354 95	−0.3	3619
*11527	R (1, −6 ; 22) GR	←	(0, −5 ; 21) GR	E	290.377 19	0.3	5047
*11528	P (1, 4 ; 5) GR	←	(0, 3 ; 6) GR	A	290.419 55	−0.2	1619
*11529	R (1, 2 ; 31) GR	←	(0, 3 ; 30) GR	E	290.463 79	1.3	2095
*11530	R (1, 9 ; 25) GR	←	(0, 8 ; 24) GR	A	290.490 18	0.3	4857
*11531	R (1, 0 +; 4) GR	←	(0, 1 −; 3) GR	A	290.522 09	0.1	5238
*11532	P (2, 6 ; 12) GR	←	(0, 7 ; 13) GR	E	290.546 32	−1.0	2285
11533	P (1, 7 ; 7) GR	←	(0, 6 ; 8) GR	A	290.690 17	6.4	6000
*11534	R (1, −1 ; 8) GR	←	(0, 0 ; 7) GR	E	290.714 76	0.6	6761
*11535	R (1, −1 ; 14) GR	←	(0, −2 ; 13) GR	E	290.767 36	1.0	5142
*11536	R (2, 5 ; 13) GR	←	(1, 4 ; 12) GR	A	290.840 50	−0.9	5904
*11537	R (1, 2 ; 18) GR	←	(0, 1 ; 17) GR	E	290.965 90	0.1	6761
*11538	R (1, 3 +; 27) GR	←	(0, 2 −; 26) GR	A	290.971 52	−0.4	4571
*11539	R (1, 8 ; 33) GR	←	(0, 7 ; 32) GR	E	291.013 34	1.0	2095
*11540	R (1, 3 −; 28) GR	←	(0, 2 +; 27) GR	A	291.052 32	0.6	4285
*11541	R (1, −5 ; 28) GR	←	(0, −6 ; 27) GR	E	291.155 19	1.1	2857
*11542	R (1, 9 ; 9) GR	←	(0, 8 ; 8) GR	E	291.177 89	−0.1	7904
*11543	R (1, 10 ; 14) GR	←	(0, 9 ; 13) GR	A	291.190 94	1.0	8285
*11544	R (2, 1 ; 9) GR	←	(1, 2 ; 8) GR	E	291.292 83	0.5	1714
*11545	P (1, −5 ; 16) GR	←	(0, −4 ; 17) GR	E	291.479 51	−0.2	2761
*11546	P (1, 6 ; 15) GR	←	(0, 5 ; 16) GR	E	291.603 39	2.0	2952
*11547	R (1, 8 ; 27) GR	←	(0, 8 ; 26) GR	A	291.709 96	−2.3	1619
*11548	R (1, 3 ; 11) GR	←	(0, 2 ; 10) GR	E	291.746 14	0.8	6000
*11549	R (1, 2 ; 32) GR	←	(0, 3 ; 31) GR	E	291.777 08	−0.7	1904
*11550	R (1, −4 ; 35) GR	←	(0, −3 ; 34) GR	E	291.802 29	−0.2	3619



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
*11551	R (1, −6 ; 23) GR	←	(0, −5 ; 22) GR	E	291.814 44	0.7	4095
*11552	R (1, −2 ; 27) GR	←	(0, −1 ; 26) GR	E	291.827 84	1.4	2095
*11553	R (1, 9 ; 26) GR	←	(0, 8 ; 25) GR	A	291.926 83	0.2	4476
*11554	R (1, 0 +; 5) GR	←	(0, 1 −; 4) GR	A	292.024 85	0.2	6380
*11555	P (2, 6 ; 11) GR	←	(0, 7 ; 12) GR	E	292.183 55	0.5	2476
*11556	R (1, −1 ; 15) GR	←	(0, −2 ; 14) GR	E	292.236 64	0.0	5714
*11557	R (1, −1 ; 9) GR	←	(0, 0 ; 8) GR	E	292.272 47	−0.7	6571
*11558	R (2, 5 ; 14) GR	←	(1, 4 ; 13) GR	A	292.350 83	0.5	6285
*11559	R (1, 3 −; 29) GR	←	(0, 2 +; 28) GR	A	292.438 30	1.5	3714
*11560	R (1, 2 ; 19) GR	←	(0, 1 ; 18) GR	E	292.449 32	0.0	6666
*11561	R (1, 8 ; 34) GR	←	(0, 7 ; 33) GR	E	292.533 05	0.0	1523
*11562	R (1, 3 +; 28) GR	←	(0, 2 −; 27) GR	A	292.561 81	0.1	4380
*11563	R (1, 10 ; 15) GR	←	(0, 9 ; 14) GR	A	292.695 66	0.0	8285
*11564	R (1, −5 ; 29) GR	←	(0, −6 ; 28) GR	E	292.700 32	−1.4	7142
*11565	R (1, 9 ; 10) GR	←	(0, 8 ; 9) GR	E	292.704 99	1.2	7714
*11566	R (2, 1 ; 10) GR	←	(1, 2 ; 9) GR	E	292.836 13	2.2	2857
*11567	Q (2, −4 ; 20) GR	←	(1, −3 ; 20) GR	E	292.987 68	0.8	2000
*11568	Q (2, −4 ; 19) GR	←	(1, −3 ; 19) GR	E	293.014 49	1.1	1809
*11569	Q (2, −4 ; 18) GR	←	(1, −3 ; 18) GR	E	293.041 46	1.6	1619
*11570	Q (2, −4 ; 17) GR	←	(1, −3 ; 17) GR	E	293.068 17	1.3	1809
*11571	R (1, 2 ; 33) GR	←	(0, 3 ; 32) GR	E	293.076 71	−0.3	1523
*11572	P (1, −5 ; 15) GR	←	(0, −4 ; 16) GR	E	293.094 07	2.1	3523
*11573	Q (2, −4 ; 16) GR	←	(1, −3 ; 16) GR	E	293.094 07	−1.0	3523
*11574	R (1, 8 ; 28) GR	←	(0, 8 ; 27) GR	A	293.105 31	1.8	1428
*11575	Q (2, −4 ; 15) GR	←	(1, −3 ; 15) GR	E	293.120 09	0.4	1809
*11576	Q (2, −4 ; 14) GR	←	(1, −3 ; 14) GR	E	293.145 22	1.9	2190
*11577	Q (2, −4 ; 13) GR	←	(1, −3 ; 13) GR	E	293.169 29	2.1	2380
*11578	Q (2, −4 ; 12) GR	←	(1, −3 ; 12) GR	E	293.192 10	1.0	2095
*11579	Q (2, −4 ; 11) GR	←	(1, −3 ; 11) GR	E	293.213 77	−0.6	1809
*11580	R (1, 3 ; 12) GR	←	(0, 2 ; 11) GR	E	293.227 29	1.5	5809
*11581	Q (2, −4 ; 10) GR	←	(1, −3 ; 10) GR	E	293.234 33	1.0	2095
*11582	R (1, −6 ; 24) GR	←	(0, −5 ; 23) GR	E	293.242 57	−0.1	4000
*11583	P (1, 6 ; 14) GR	←	(0, 5 ; 15) GR	E	293.251 55	−1.5	2857
*11584	Q (2, −4 ; 9) GR	←	(1, −3 ; 9) GR	E	293.253 37	1.6	1339
*11585	Q (2, −4 ; 8) GR	←	(1, −3 ; 8) GR	E	293.270 69	0.8	1714
*11586	Q (2, −4 ; 7) GR	←	(1, −3 ; 7) GR	E	293.286 37	1.0	1619
*11587	Q (2, −4 ; 6) GR	←	(1, −3 ; 6) GR	E	293.300 38	2.1	1619
*11588	Q (2, −4 ; 5) GR	←	(1, −3 ; 5) GR	E	293.312 29	0.0	1238
*11589	Q (2, −4 ; 4) GR	←	(1, −3 ; 4) GR	E	293.322 82	1.7	1428
*11590	R (1, −4 ; 36) GR	←	(0, −3 ; 35) GR	E	293.337 18	−0.4	2095
*11591	R (1, 9 ; 27) GR	←	(0, 8 ; 26) GR	A	293.354 56	−0.5	4476
*11592	R (1, −2 ; 28) GR	←	(0, −1 ; 27) GR	E	293.463 69	−1.3	1809
*11593	R (1, 0 +; 6) GR	←	(0, 1 −; 5) GR	A	293.510 78	0.4	6476
*11594	R (1, −1 ; 16) GR	←	(0, −2 ; 15) GR	E	293.690 58	1.1	5523
11595	P (2, 6 ; 10) GR	←	(0, 7 ; 11) GR	E	293.816 35	6.3	4190
11596	R (1, 3 −; 30) GR	←	(0, 2 +; 29) GR	A	293.816 35	−6.0	4190
*11597	R (1, −1 ; 10) GR	←	(0, 0 ; 9) GR	E	293.834 68	−0.1	7047
*11598	R (2, 5 ; 15) GR	←	(1, 4 ; 14) GR	A	293.851 93	0.2	5714
*11599	R (1, 2 ; 20) GR	←	(0, 1 ; 19) GR	E	293.928 05	0.9	6190
*11600	R (1, 8 ; 35) GR	←	(0, 7 ; 34) GR	E	294.051 09	0.0	1523
*11601	R (1, 10 ; 16) GR	←	(0, 9 ; 15) GR	A	294.196 41	0.1	8190
*11602	R (1, 9 ; 11) GR	←	(0, 8 ; 10) GR	E	294.227 65	−0.2	8000
*11603	R (1, −5 ; 30) GR	←	(0, −6 ; 29) GR	E	294.249 66	0.8	2190
*11604	R (1, 2 ; 34) GR	←	(0, 3 ; 33) GR	E	294.363 15	−0.5	1619
*11605	R (2, 1 ; 11) GR	←	(1, 2 ; 10) GR	E	294.375 80	0.8	2000
*11606	R (1, 8 ; 29) GR	←	(0, 8 ; 28) GR	A	294.492 16	2.9	2285
*11607	R (1, −6 ; 25) GR	←	(0, −5 ; 24) GR	E	294.661 34	0.4	6190
*11608	R (1, 3 ; 13) GR	←	(0, 2 ; 12) GR	E	294.693 22	−0.1	5809
*11609	P (1, −5 ; 14) GR	←	(0, −4 ; 15) GR	E	294.708 44	0.5	3238
*11610	R (1, 9 ; 28) GR	←	(0, 8 ; 27) GR	A	294.773 08	−0.5	4285
*11611	R (1, −4 ; 37) GR	←	(0, −3 ; 36) GR	E	294.874 00	−1.1	1714
*11612	P (1, 6 ; 13) GR	←	(0, 5 ; 14) GR	E	294.892 59	0.7	2571
*11613	R (1, 0 +; 7) GR	←	(0, 1 −; 6) GR	A	294.980 12	0.4	6857
*11614	R (1, −2 ; 29) GR	←	(0, −1 ; 28) GR	E	295.110 29	−0.4	1714
*11615	R (1, −1 ; 17) GR	←	(0, −2 ; 16) GR	E	295.127 16	0.2	5619
*11616	R (1, 3 −; 31) GR	←	(0, 2 +; 30) GR	A	295.188 72	0.5	3047
*11617	R (2, 5 ; 16) GR	←	(1, 4 ; 15) GR	A	295.342 96	.6	5714
11618	R (1, 2 ; 21) GR	←	(0, 1 ; 20) GR	E	295.402 92	4.5	8380
*11619	R (1, −1 ; 11) GR	←	(0, 0 ; 10) GR	E	295.402 92	−2.1	8380
*11620	P (2, 6 ; 9) GR	←	(0, 7 ; 10) GR	E	295.443 09	0.2	2380
*11621	R (1, 2 ; 35) GR	←	(0, 3 ; 34) GR	E	295.636 45	−2.4	1619
*11622	R (1, 10 ; 17) GR	←	(0, 9 ; 16) GR	A	295.693 49	1.0	7904
*11623	R (1, 9 ; 12) GR	←	(0, 8 ; 11) GR	E	295.745 75	0.6	8095
*11624	R (1, −5 ; 31) GR	←	(0, −6 ; 30) GR	E	295.802 44	1.0	1619
*11625	R (1, 8 ; 30) GR	←	(0, 8 ; 29) GR	A	295.869 91	1.7	1714

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
*11626	R (2, 1 ; 12) GR	←	(1, 2 ; 11) GR	E	295.912 40	1.0	2380
*11627	R (1, −6 ; 26) GR	←	(0, −5 ; 25) GR	E	296.070 45	0.2	3047
*11628	R (1, 3 ; 14) GR	←	(0, 2 ; 13) GR	E	296.142 93	1.0	5428
*11629	R (1, 9 ; 29) GR	←	(0, 8 ; 28) GR	A	296.182 06	0.4	3142
*11630	P (1, −5 ; 13) GR	←	(0, −4 ; 14) GR	E	296.322 68	0.4	3238
*11631	R (1, −4 ; 38) GR	←	(0, −3 ; 37) GR	E	296.412 57	−0.4	1809
*11632	R (1, 0 +; 8) GR	←	(0, 1 −; 7) GR	A	296.433 09	0.5	7428
*11633	P (1, 6 ; 12) GR	←	(0, 5 ; 13) GR	E	296.526 20	−1.0	2190
*11634	R (1, −1 ; 18) GR	←	(0, −2 ; 17) GR	E	296.544 42	0.9	5333
*11635	R (1, 3 −; 32) GR	←	(0, 2 +; 31) GR	A	296.554 32	−0.6	2380
*11636	R (1, −2 ; 30) GR	←	(0, −1 ; 29) GR	E	296.767 71	0.4	1428
*11637	R (2, 5 ; 17) GR	←	(1, 4 ; 16) GR	A	296.823 08	0.6	5809
*11638	R (1, 2 ; 22) GR	←	(0, 1 ; 21) GR	E	296.873 21	0.4	5809
*11639	R (1, 2 ; 36) GR	←	(0, 3 ; 35) GR	E	296.898 12	−0.3	2000
*11640	R (1, −1 ; 12) GR	←	(0, 0 ; 11) GR	E	296.980 07	1.0	6666
*11641	P (2, 6 ; 8) GR	←	(0, 7 ; 9) GR	E	297.065 33	−0.2	2952
*11642	R (1, 10 ; 18) GR	←	(0, 9 ; 17) GR	A	297.187 90	0.6	7904
*11643	R (1, 9 ; 13) GR	←	(0, 8 ; 12) GR	E	297.259 25	0.2	7523
*11644	R (2, 1 ; 13) GR	←	(1, 2 ; 12) GR	E	297.445 20	−1.8	2000
*11645	R (1, −6 ; 27) GR	←	(0, −5 ; 26) GR	E	297.469 30	0.7	2571
*11646	R (1, 3 ; 15) GR	←	(0, 2 ; 14) GR	E	297.575 70	0.3	5428
*11647	R (1, 9 ; 30) GR	←	(0, 8 ; 29) GR	A	297.581 10	−0.2	2761
*11648	R (1, 0 +; 9) GR	←	(0, 1 −; 8) GR	A	297.869 90	−0.1	7047
*11649	P (1, −5 ; 12) GR	←	(0, −4 ; 13) GR	E	297.936 34	0.4	3142
*11650	R (1, −1 ; 19) GR	←	(0, −2 ; 18) GR	E	297.940 29	1.0	5428
*11651	R (1, −4 ; 39) GR	←	(0, −3 ; 38) GR	E	297.951 48	0.0	1142
11652	P (1, 6 ; 11) GR	←	(0, 5 ; 12) GR	E	298.153 19	−4.0	3428
*11653	R (2, 5 ; 18) GR	←	(1, 4 ; 17) GR	A	298.291 24	−0.4	5333
*11654	R (1, 2 ; 23) GR	←	(0, 1 ; 22) GR	E	298.340 76	1.1	5619
*11655	P (2, 4 ; 11) GR	←	(1, 5 ; 12) GR	E	298.409 25	−1.2	1333
*11656	R (1, −1 ; 13) GR	←	(0, 0 ; 12) GR	E	298.567 51	0.8	6666
*11657	R (1, 10 ; 19) GR	←	(0, 9 ; 18) GR	A	298.664 92	−0.1	7238
*11658	P (2, 6 ; 7) GR	←	(0, 7 ; 8) GR	E	298.682 49	−0.9	2857
*11659	R (1, 9 ; 14) GR	←	(0, 8 ; 13) GR	E	298.768 58	−0.1	7238
*11660	R (1, −6 ; 28) GR	←	(0, −5 ; 27) GR	E	298.857 76	−0.9	2571
*11661	R (1, 9 ; 31) GR	←	(0, 8 ; 30) GR	A	298.969 97	0.8	2761
*11662	R (2, 1 ; 14) GR	←	(1, 2 ; 13) GR	E	298.974 99	−0.1	2095
*11663	R (1, 3 ; 16) GR	←	(0, 2 ; 15) GR	E	298.991 28	0.2	5333
*11664	R (1, 0 +; 10) GR	←	(0, 1 −; 9) GR	A	299.291 08	−0.1	6952
*11665	R (1, −1 ; 20) G	←	(0, −2 ; 19) GR	E	299.312 75	0.8	5619
*11666	Q (1, 4 ; 25) GR	←	(0, 3 −; 25) GR	A	299.391 74	3.5	6000
*11667	Q (1, 4 ; 24) GR	←	(0, 3 −; 24) GR	A	299.391 74	−0.2	6000
*11668	Q (1, 4 ; 26) GR	←	(0, 3 −; 26) GR	A	299.391 74	−4.0	6000
*11669	Q (1, 4 ; 23) GR	←	(0, 3 −; 23) GR	A	299.395 02	0.1	5714
*11670	Q (1, 4 ; 22) GR	←	(0, 3 −; 22) GR	A	299.401 12	−1.0	4476
*11671	Q (1, 4 ; 21) GR	←	(0, 3 −; 21) GR	A	299.410 82	0.2	4761
*11672	Q (1, 4 ; 20) GR	←	(0, 3 −; 20) GR	A	299.424 25	0.4	4952
*11673	Q (1, 4 ; 19) GR	←	(0, 3 −; 19) GR	A	299.441 52	0.9	5619
*11674	Q (1, 4 ; 18) GR	←	(0, 3 −; 18) GR	A	299.462 42	0.2	5809
*11675	Q (1, 4 ; 20) GR	←	(0, 3 +; 20) GR	A	299.476 57	0.3	5333
*11676	Q (1, 4 ; 19) GR	←	(0, 3 +; 19) GR	A	299.480 37	1.3	7333
*11677	Q (1, 4 ; 21) GR	←	(0, 3 +; 21) GR	A	299.480 37	−0.8	7333
*11678	Q (1, 4 ; 17) GR	←	(0, 3 −; 17) GR	A	299.486 81	0.7	5904
*11679	Q (1, 4 ; 18) GR	←	(0, 3 +; 18) GR	A	299.490 72	0.3	5523
*11680	Q (1, 4 ; 22) GR	←	(0, 3 +; 22) GR	A	299.492 55	0.4	4285
*11681	Q (1, 4 ; 17) GR	←	(0, 3 +; 17) GR	A	299.507 00	−0.9	5809
11682	Q (1, 4 ; 23) GR	←	(0, 3 +; 23) GR	A	299.514 12	5.7	7333
*11683	Q (1, 4 ; 16) GR	←	(0, 3 −; 16) GR	A	299.514 12	−1.9	7333
*11684	Q (1, 4 ; 16) GR	←	(0, 3 +; 16) GR	A	299.528 57	−0.7	6000
11685	Q (1, 4 ; 24) GR	←	(0, 3 +; 24) GR	A	299.544 42	9.6	7333
*11686	Q (1, 4 ; 15) GR	←	(0, 3 −; 15) GR	A	299.544 42	−1.3	7333
*11687	P (1, −5 ; 11) GR	←	(0, −4 ; 12) GR	E	299.548 83	−0.5	2952
*11688	Q (1, 4 ; 15) GR	←	(0, 3 +; 15) GR	A	299.554 41	0.4	6190
*11689	Q (1, 4 ; 14) GR	←	(0, 3 −; 14) GR	A	299.577 15	0.5	6285
*11690	Q (1, 4 ; 14) GR	←	(0, 3 +; 14) GR	A	299.583 66	0.3	6952
*11691	Q (1, 4 ; 25) GR	←	(0, 3 +; 25) GR	A	299.583 66	−0.8	6952
*11692	R (2, −4 ; 4) GR	←	(1, −3 ; 3) GR	E	299.603 63	0.9	2095
*11693	Q (1, 4 ; 13) GR	←	(0, 3 −; 13) GR	A	299.611 17	0.1	6095
*11694	Q (1, 4 ; 13) GR	←	(0, 3 +; 13) GR	A	299.615 37	−0.2	6285
*11695	Q (1, 4 ; 26) GR	←	(0, 3 +; 26) GR	A	299.634 01	1.4	3238
*11696	Q (1, 4 ; 12) GR	←	(0, 3 −; 12) GR	A	299.646 23	0.8	6761
*11697	Q (1, 4 ; 12) GR	←	(0, 3 +; 12) GR	A	299.648 77	0.0	6095
*11698	Q (1, 4 ; 11) GR	←	(0, 3 −; 11) GR	A	299.681 64	1.2	6666
*11699	Q (1, 4 ; 11) GR	←	(0, 3 +; 11) GR	A	299.682 77	−2.2	6476
*11700	Q (1, 4 ; 10) GR	←	(0, 3 ; 10) GR	A	299.716 96	−0.9	8285



Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
*11701	R (2, 5 ; 19)	GR	(1, 4 ; 18)	GR	A	299.746 70	0.0	7142
*11702	Q (1, 4 ; 9)	GR	(0, 3 ; 9)	GR	A	299.750 79	0.2	8190
*11703	P (1, 6 ; 10)	GR	(0, 5 ; 11)	GR	E	299.774 71	−0.8	2095
*11704	Q (1, 4 ; 8)	GR	(0, 3 ; 8)	GR	A	299.783 05	0.0	7523
*11705	R (1, 2 ; 24)	GR	(0, 1 ; 23)	GR	E	299.805 85	−0.1	4952
*11706	Q (1, 4 ; 7)	GR	(0, 3 ; 7)	GR	A	299.813 38	0.2	7142
*11707	Q (1, 4 ; 6)	GR	(0, 3 ; 6)	GR	A	299.841 06	0.0	6571
*11708	Q (1, 4 ; 5)	GR	(0, 3 ; 5)	GR	A	299.865 73	0.6	5904
*11709	Q (1, 4 ; 4)	GR	(0, 3 ; 4)	GR	A	299.886 87	0.8	4476
*11710	P (2, 4 ; 10)	GR	(1, 5 ; 11)	GR	E	300.023 24	0.6	1238
*11711	R (1, 10 ; 20)	GR	(0, 9 ; 19)	GR	A	300.156 13	0.6	7238
*11712	R (1, −1 ; 14)	GR	(0, 0 ; 13)	GR	E	300.167 51	0.0	6761
*11713	R (1, −6 ; 29)	GR	(0, −5 ; 28)	GR	E	300.235 11	0.5	2666
*11714	R (1, 9 ; 15)	GR	(0, 8 ; 14)	GR	E	300.273 62	−0.2	7619
*11715	P (2, 6 ; 6)	GR	(0, 7 ; 7)	GR	E	300.294 37	−0.7	2761
*11716	R (1, 9 ; 32)	GR	(0, 8 ; 31)	GR	A	300.348 30	−0.7	2190
11717	R (1, 3 ; 17)	GR	(0, 2 ; 16)	GR	E	300.390 67	7.9	6285
*11718	R (2, 1 ; 15)	GR	(1, 2 ; 14)	GR	E	300.500 79	−0.7	1714
*11719	R (1, −1 ; 21)	GR	(0, −2 ; 20)	GR	E	300.660 13	0.1	5428
*11720	R (1, 0 $^{+}$; 11)	GR	(0, 1 $^{-}$; 10)	GR	A	300.696 93	0.5	7428
*11721	Q (1, 7 ; 37)	GR	(0, 6 ; 37)	GR	A	300.831 04	0.2	1714
*11722	Q (1, 7 ; 36)	GR	(0, 6 ; 36)	GR	A	300.939 07	−0.6	1904
*11723	Q (1, 7 ; 35)	GR	(0, 6 ; 35)	GR	A	301.046 72	−0.6	2857
*11724	Q (1, 7 ; 34)	GR	(0, 6 ; 34)	GR	A	301.154 24	−0.2	2285
*11725	P (1, −5 ; 10)	GR	(0, −4 ; 11)	GR	E	301.159 83	0.8	2666
*11726	R (2, −4 ; 5)	GR	(1, −3 ; 4)	GR	A	301.163 09	0.0	2285
*11727	R (2, −4 ; 5)	GR	(1, −3 ; 4)	GR	E	301.163 09	−0.3	2285
*11728	R (2, 5 ; 20)	GR	(1, 4 ; 19)	GR	A	301.188 73	0.4	5047
*11729	Q (1, 7 ; 33)	GR	(0, 6 ; 33)	GR	A	301.260 88	−0.7	2666
*11730	R (1, 2 ; 25)	GR	(0, 1 ; 24)	GR	E	301.269 31	−0.1	4571
*11731	R (1, −8 ; 8)	GR	(0, −7 ; 7)	GR	E	301.301 07	0.4	8476
*11732	Q (1, 7 ; 32)	GR	(0, 6 ; 32)	GR	A	301.367 14	0.4	3142
*11733	P (1, 6 ; 9)	GR	(0, 5 ; 10)	GR	E	301.390 21	−0.5	2095
*11734	Q (1, 7 ; 31)	GR	(0, 6 ; 31)	GR	A	301.472 58	1.9	3809
*11735	Q (1, 7 ; 30)	GR	(0, 6 ; 30)	GR	A	301.576 45	−0.2	4190
*11736	R (1, −6 ; 30)	GR	(0, −5 ; 29)	GR	E	301.601 13	0.8	1904
*11737	P (2, 4 ; 9)	GR	(1, 5 ; 10)	GR	E	301.630 18	2.4	1428
*11738	R (1, 10 ; 21)	GR	(0, 9 ; 20)	GR	A	301.638 72	−0.2	7047
*11739	Q (1, 7 ; 29)	GR	(0, 6 ; 29)	GR	A	301.679 40	0.7	4190
*11740	R (1, 9 ; 33)	GR	(0, 8 ; 32)	GR	A	301.715 97	0.3	2095
*11741	R (1, 3 ; 18)	GR	(0, 2 ; 17)	GR	E	301.772 22	1.2	4952
*11742	R (1, 9 ; 16)	GR	(0, 8 ; 15)	GR	E	301.774 43	1.0	7523
*11743	Q (1, 7 ; 28)	GR	(0, 6 ; 28)	GR	A	301.780 84	1.4	0
*11744	R (1, −1 ; 15)	GR	(0, 0 ; 14)	GR	E	301.782 10	−0.8	6476
*11745	Q (1, 7 ; 27)	GR	(0, 6 ; 27)	GR	A	301.880 37	0.0	5047
*11746	P (2, 2 ; 19)	GR	(1, 3 ; 20)	GR	A	301.914 94	0.1	1333
*11747	Q (1, 7 ; 26)	GR	(0, 6 ; 26)	GR	A	301.978 24	0.0	5619
*11748	R (1, −1 ; 22)	GR	(0, −2 ; 21)	GR	E	301.981 49	0.5	5142
*11749	R (2, 1 ; 16)	GR	(1, 2 ; 15)	GR	E	302.022 97	1.5	2000
*11750	Q (1, 7 ; 25)	GR	(0, 6 ; 25)	GR	A	302.073 93	0.2	6190
*11751	R (1, 0 $^{+}$; 12)	GR	(0, 1 $^{-}$; 11)	GR	A	302.087 72	0.4	7523
*11752	Q (1, 7 ; 24)	GR	(0, 6 ; 24)	GR	A	302.167 47	0.1	6285
*11753	Q (1, 7 ; 23)	GR	(0, 6 ; 23)	GR	A	302.258 69	0.9	6285
*11754	Q (1, 7 ; 22)	GR	(0, 6 ; 22)	GR	A	302.347 33	−0.3	6761
*11755	Q (1, 7 ; 21)	GR	(0, 6 ; 21)	GR	A	302.433 15	−0.5	6761
*11756	Q (1, 8 ; 28)	GR	(0, 7 ; 28)	GR	A	302.484 20	1.5	2476
*11757	Q (1, 7 ; 20)	GR	(0, 6 ; 20)	GR	A	302.516 26	0.4	7238
*11758	Q (1, 7 ; 19)	GR	(0, 6 ; 19)	GR	A	302.596 33	0.3	7428
*11759	R (2, 5 ; 21)	GR	(1, 4 ; 20)	GR	A	302.616 51	0.6	4666
*11760	Q (1, 8 ; 27)	GR	(0, 7 ; 27)	GR	A	302.641 66	1.0	2476
*11761	Q (1, 7 ; 18)	GR	(0, 6 ; 18)	GR	A	302.673 14	−1.6	8000
*11762	R (2, −4 ; 6)	GR	(1, −3 ; 5)	GR	E	302.720 84	1.6	2190
*11763	R (1, 2 ; 26)	GR	(0, 1 ; 25)	GR	E	302.732 49	1.2	4190
*11764	Q (1, 7 ; 17)	GR	(0, 6 ; 17)	GR	A	302.746 90	−0.1	7619
*11765	P (1, −5 ; 9)	GR	(0, −4 ; 10)	GR	E	302.768 82	0.3	2285
*11766	Q (1, 8 ; 26)	GR	(0, 7 ; 26)	GR	A	302.793 16	0.1	2952
*11767	Q (1, 7 ; 16)	GR	(0, 6 ; 16)	GR	A	302.817 23	1.0	7809
*11768	R (1, −8 ; 9)	GR	(0, −7 ; 8)	GR	E	302.833 39	0.9	7904
*11769	Q (1, 7 ; 15)	GR	(0, 6 ; 15)	GR	A	302.883 96	0.6	8095
*11770	Q (1, 8 ; 25)	GR	(0, 7 ; 25)	GR	A	302.938 80	0.1	3238
*11771	Q (1, 7 ; 14)	GR	(0, 6 ; 14)	GR	A	302.947 01	0.2	8190
*11772	R (1, −6 ; 31)	GR	(0, −5 ; 30)	GR	E	302.955 22	0.2	2000
11773	P (1, 6 ; 8)	GR	(0, 5 ; 9)	GR	E	303.001 04	4.0	1523
*11774	Q (1, 7 ; 13)	GR	(0, 6 ; 13)	GR	A	303.006 46	−0.1	7142
*11775	Q (1, 7 ; 12)	GR	(0, 6 ; 12)	GR	A	303.062 03	0.9	7904

Index	upper state T (n, K ; J) ^{v}		lower state (n, K ; J) ^{v}		σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot 10^4$ /cm^{-1}	Int. /a.u.
*11776	R (1, 9 ; 34)	GR	(0, 8 ; 33)	GR	A	303.072 02	−1.9	1904
*11777	Q (1, 8 ; 24)	GR	(0, 7 ; 24)	GR	A	303.078 33	−1.3	3619
11778	Q (1, 7 ; 11)	GR	(0, 6 ; 11)	GR	A	303.113 17	−3.8	8571
*11779	R (1, 10 ; 22)	GR	(0, 9 ; 21)	GR	A	303.117 32	0.1	6952
*11780	R (1, 3 ; 19)	GR	(0, 2 ; 18)	GR	E	303.138 83	−1.1	4476
*11781	Q (1, 7 ; 10)	GR	(0, 6 ; 10)	GR	A	303.161 26	0.0	7619
*11782	Q (1, 7 ; 9)	GR	(0, 6 ; 9)	GR	A	303.204 83	0.5	7428
*11783	Q (1, 8 ; 23)	GR	(0, 7 ; 23)	GR	A	303.212 47	−0.5	4095
*11784	P (2, 4 ; 8)	GR	(1, 5 ; 9)	GR	E	303.230 55	0.6	1333
*11785	Q (1, 7 ; 8)	GR	(0, 6 ; 8)	GR	A	303.244 21	0.2	6666
*11786	R (1, 9 ; 17)	GR	(0, 8 ; 16)	GR	E	303.271 08	0.1	6952
*11787	R (1, −1 ; 23)	GR	(0, −2 ; 22)	GR	E	303.275 90	0.1	5142
*11788	Q (1, 7 ; 7)	GR	(0, 6 ; 7)	GR	A	303.279 38	−0.2	5047
*11789	Q (1, 8 ; 22)	GR	(0, 7 ; 22)	GR	A	303.340 90	0.3	3904
*11790	R (1, −1 ; 16)	GR	(0, 0 ; 15)	GR	E	303.413 33	0.4	6952
*11791	Q (1, 8 ; 21)	GR	(0, 7 ; 21)	GR	A	303.463 93	1.5	8285
*11792	R (1, 0 $^{+}$; 13)	GR	(0, 1 $^{-}$; 12)	GR	A	303.463 93	−0.6	8285
*11793	R (2, 1 ; 17)	GR	(1, 2 ; 16)	GR	E	303.540 62	−1.9	2285
*11794	P (2, 2 ; 18)	GR	(1, 3 ; 19)	GR	A	303.543 82	−1.2	1904
*11795	Q (1, 8 ; 20)	GR	(0, 7 ; 20)	GR	A	303.580 75	−0.4	4571
*11796	Q (1, 8 ; 19)	GR	(0, 7 ; 19)	GR	A	303.692 43	0.2	4761
*11797	Q (1, 8 ; 18)	GR	(0, 7 ; 18)	GR	A	303.798 55	0.1	5333
*11798	Q (1, 8 ; 17)	GR	(0, 7 ; 17)	GR	A	303.899 26	0.3	5238
*11799	Q (1, 8 ; 16)	GR	(0, 7 ; 16)	GR	A	303.994 46	−0.8	5714
*11800	R (2, 5 ; 22)	GR	(1, 4 ; 21)	GR	A	304.029 34	0.7	4285
*11801	Q (1, 8 ; 15)	GR	(0, 7 ; 15)	GR	A	304.084 36	0.3	5619
*11802	Q (1, 8 ; 14)	GR	(0, 7 ; 14)	GR	A	304.168 79	0.8	5619
*11803	R (1, 2 ; 27)	GR	(0, 1 ; 26)	GR	E	304.196 18	−0.5	3523
*11804	Q (1, 8 ; 13)	GR	(0, 7 ; 13)	GR	A	304.247 71	0.0	5333
*11805	R (2, −4 ; 7)	GR	(1, −3 ; 6)	GR	E	304.276 10	−0.7	2476
*11806	R (1, −6 ; 32)	GR	(0, −5 ; 31)	GR	E	304.297 16	0.7	1714
*11807	Q (1, 8 ; 12)	GR	(0, 7 ; 12)	GR	A	304.321 33	1.0	5047
*11808	R (1, −8 ; 10)	GR	(0, −7 ; 9)	GR	E	304.361 19	0.1	7428
11809	P (1, −5 ; 8)	GR	(0, −4 ; 9)	GR	E	304.374 97	−3.8	2190
*11810	Q (1, 8 ; 11)	GR	(0, 7 ; 11)	GR	A	304.389 34	−0.7	5619
*11811	Q (1, 9 ; 26)	GR	(0, 7 ; 26)	GR	A	304.413 00	0.5	1523
*11812	R (1, 9 ; 35)	GR	(0, 8 ; 34)	GR	A	304.417 23	0.4	1428
*11813	Q (1, 8 ; 10)	GR	(0, 7 ; 10)	GR	A	304.452 10	0.8	4571
*11814	R (1, 3 ; 20)	GR	(0, 2 ; 19)	GR	E	304.491 39	0.4	4095
*11815	Q (1, 8 ; 9)	GR	(0, 7 ; 9)	GR	A	304.509 23	1.0	4190
*11816	Q (1, 9 ; 25)	GR	(0, 7 ; 25)	GR	A	304.533 06	−2.5	1238
*11817	R (1, −1 ; 24)	GR	(0, −2 ; 23)	GR	E	304.543 27	−0.9	4571
*11818	Q (1, 8 ; 8)	GR	(0, 7 ; 8)	GR	A	304.560 73	−0.4	2952
*11819	R (1, 10 ; 23)	GR	(0, 9 ; 22)	GR	A	304.592 58	1.0	6857
*11820	P (1, 6 ; 7)	GR	(0, 5 ; 8)	GR	E	304.606 13	0.4	1523
*11821	Q (1, 9 ; 24)	GR	(0, 7 ; 24)	GR	A	304.647 04	2.6	1523
*11822	Q (1, 9 ; 23)	GR	(0, 7 ; 23)	GR	A	304.754 05	0.3	2000
*11823	R (1, 9 ; 18)	GR	(0, 8 ; 17)	GR	E	304.763 76	0.6	6571
11824	P (2, 4 ; 7)	GR	(1, 5 ; 8)	GR	E	304.826 40	7.6	8000
*11825	R (1, 0 $^{+}$; 14)	GR	(0, 1 $^{-}$; 13)	GR	A	304.826 40	−0.7	8000
*11826	Q (1, 9 ; 22)	GR	(0, 7 ; 22)	GR	A	304.855 08	1.6	1523
*11827	Q (1, 9 ; 21)	GR	(0, 7 ; 21)	GR	A	304.949 64	−0.5	1619
*11828	Q (1, 9 ; 20)	GR	(0, 7 ; 20)	GR	A	305.038 75	0.8	1619
*11829	R (2, 1 ; 18)	GR	(1, 2 ; 17)	GR	E	305.054 44	−0.9	2000
*11830	R (1, −1 ; 17)	GR	(0, 0 ; 16)	GR	E	305.062 56	−0.8	5714
*11831	Q (1, 9 ; 19)	GR	(0, 7 ; 19)	GR	A	305.121 93	2.2	1904
*11832	P (2, 2 ; 17)	GR	(1, 3 ; 18)	GR	A	305.169 33	1.5	2000
*11833	Q (1, 9 ; 17)	GR	(0, 7 ; 17)	GR	A	305.271 30	0.3	1333
*11834	Q (1, 9 ; 16)	GR	(0, 7 ; 16)	GR	A	305.338 11	−0.8	1428
*11835	Q (1, 9 ; 15)	GR	(0, 7 ; 15)	GR	A	305.400 21	3.1	1714
*11836	R (2, 5 ; 23)	GR	(1, 4 ; 22)	GR	A	305.426 58	1.2	5523
*11837	Q (1, 9 ; 14)	GR	(0, 7 ; 14)	GR	A	305.456 82	0.1	1333
11838	Q (1, 9 ; 13)	GR	(0, 7 ; 13)	GR	A	305.508 36	−4.9	1142
*11839	R (1, −6 ; 33)	GR	(0, −5 ; 32)	GR	E	305.625 72	−2.3	1809
*11840	R (1, 2 ; 28)	GR	(0, 1 ; 27)	GR	E	305.661 85	−0.9	2761
*11841	R (1, −1 ; 25)	GR	(0, −2 ; 24)	GR	E	305.784 00	−0.3	4380
*11842	R (2, −4 ; 8)	GR	(1, −3 ; 7)	GR	E	305.829 13	−3.0	1147
*11843	R (1, 3 ; 21)	GR	(0, 2 ; 20)	GR	E	305.830 76	−1.3	3523
*11844	R (1, −8 ; 11)	GR	(0, −7 ; 10)	GR	E	305.884 44	1.7	7809
*11845	P (1, −5 ; 7)	GR	(0, −4 ; 8)	GR	E	305.979 41	1.1	2190
*11846	R (1, 10 ; 24)	GR	(0, 9 ; 23)	GR	A	306.064 73	1.2	6571
*11847	R (1, 0 $^{+}$; 15)	GR	(0, 1 $^{-}$; 14)	GR	A	306.175 78	0.6	7238
*11848	R (1, 4 ; 4)	GR	(0, 3 ; 3)	GR	A	306.184 61	0.5	7714
11849	P (1, 6 ; 6)	GR	(0, 5 ; 7)	GR	E	306.206 34	−7.5	1714
*11850	R (1, 9 ; 19)	GR	(0, 8 ; 18)	GR	E	306.252 50	0.9	6857



Index	upper state T (n, K ; J)	v	←	lower state (n, K ; J)	v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*11851	P (2, 4 ; 6)	GR	←	(1, 5 ; 7)	GR	E	306.416 26	1.0	1523
*11852	R (2, 1 ; 19)	GR	←	(1, 2 ; 18)	GR	E	306.564 09	1.1	1428
*11853	R (1, −1 ; 18)	GR	←	(0, 0 ; 17)	GR	E	306.731 55	0.7	5809
*11854	P (2, 2 ; 16)	GR	←	(1, 3 ; 17)	GR	A	306.790 61	1.0	2190
*11855	R (2, 5 ; 24)	GR	←	(1, 4 ; 23)	GR	A	306.807 99	1.4	3619
*11856	R (1, −1 ; 26)	GR	←	(0, −2 ; 25)	GR	E	306.998 81	0.9	4000
*11857	R (1, 2 ; 29)	GR	←	(0, 1 ; 28)	GR	E	307.130 86	−0.1	2666
*11858	R (1, 3 ; 22)	GR	←	(0, 2 ; 21)	GR	E	307.158 82	1.5	3523
*11859	Q (2, 0 ; 23)	GR	←	(1, 1 ; 23)	GR	E	307.205 99	2.2	1428
*11860	Q (2, 0 ; 22)	GR	←	(1, 1 ; 22)	GR	E	307.230 47	2.3	1428
*11861	Q (2, 0 ; 21)	GR	←	(1, 1 ; 21)	GR	E	307.255 76	0.1	1142
*11862	Q (2, 0 ; 20)	GR	←	(1, 1 ; 20)	GR	E	307.282 27	1.3	1428
*11863	Q (2, 0 ; 19)	GR	←	(1, 1 ; 19)	GR	E	307.308 87	0.7	1714
*11864	Q (2, 0 ; 18)	GR	←	(1, 1 ; 18)	GR	E	307.335 74	−0.9	1428
*11865	Q (2, 0 ; 17)	GR	←	(1, 1 ; 17)	GR	E	307.362 72	−0.8	1714
11866	R (2, −4 ; 9)	GR	←	(1, −3 ; 8)	GR	E	307.381 80	10.0	3047
*11867	Q (2, 0 ; 16)	GR	←	(1, 1 ; 16)	GR	E	307.389 73	1.9	1619
*11868	R (1, −8 ; 12)	GR	←	(0, −7 ; 11)	GR	E	307.403 16	0.0	8095
*11869	Q (2, 0 ; 15)	GR	←	(1, 1 ; 15)	GR	E	307.415 88	1.2	1904
*11870	Q (2, 0 ; 14)	GR	←	(1, 1 ; 14)	GR	E	307.441 58	2.3	1714
*11871	Q (2, 0 ; 13)	GR	←	(1, 1 ; 13)	GR	E	307.466 14	0.4	2000
*11872	Q (2, 0 ; 12)	GR	←	(1, 1 ; 12)	GR	E	307.489 65	0.5	1809
*11873	Q (2, 0 ; 11)	GR	←	(1, 1 ; 11)	GR	E	307.512 32	0.6	7619
*11874	R (1, 0 +; 16)	GR	←	(0, 1 −; 15)	GR	A	307.512 32	0.5	7619
11875	Q (2, 0 ; 10)	GR	←	(1, 1 ; 10)	GR	E	307.533 85	4.8	6380
*11876	R (1, 10 ; 25)	GR	←	(0, 9 ; 24)	GR	A	307.533 85	0.4	6380
*11877	Q (2, 0 ; 9)	GR	←	(1, 1 ; 9)	GR	E	307.553 14	−0.7	1904
*11878	Q (2, 0 ; 8)	GR	←	(1, 1 ; 8)	GR	E	307.571 07	−1.2	1809
11879	P (1, −5 ; 6)	GR	←	(0, −4 ; 7)	GR	E	307.579 76	−5.2	1238
*11880	Q (2, 0 ; 7)	GR	←	(1, 1 ; 7)	GR	E	307.587 58	0.5	1428
*11881	Q (2, 0 ; 6)	GR	←	(1, 1 ; 6)	GR	E	307.602 25	1.4	1809
*11882	Q (2, 0 ; 5)	GR	←	(1, 1 ; 5)	GR	E	307.614 74	−0.4	1238
*11883	Q (2, 0 ; 4)	GR	←	(1, 1 ; 4)	GR	E	307.625 68	2.6	1619
*11884	Q (2, 0 ; 3)	GR	←	(1, 1 ; 3)	GR	E	307.634 23	2.3	1523
*11885	R (1, 9 ; 20)	GR	←	(0, 8 ; 19)	GR	E	307.737 63	2.1	8190
*11886	R (1, 4 ; 5)	GR	←	(0, 3 ; 4)	GR	A	307.737 63	−0.6	8190
*11887	P (2, 4 ; 5)	GR	←	(1, 5 ; 6)	GR	E	308.002 48	0.6	1904
11888	R (2, 5 ; 25)	GR	←	(1, 4 ; 24)	GR	A	308.172 34	−7.5	6285
*11889	R (1, −1 ; 27)	GR	←	(0, −2 ; 26)	GR	E	308.188 71	−0.6	3904
*11890	P (2, 2 ; 15)	GR	←	(1, 3 ; 16)	GR	A	308.408 30	0.9	2000
*11891	R (1, −1 ; 19)	GR	←	(0, 0 ; 18)	GR	E	308.421 15	0.1	5809
*11892	R (1, 3 ; 23)	GR	←	(0, 2 ; 22)	GR	E	308.475 94	1.3	3333
*11893	R (1, 2 ; 30)	GR	←	(0, 1 ; 29)	GR	E	308.604 75	2.1	2285
*11894	R (1, 0 +; 17)	GR	←	(0, 1 −; 16)	GR	A	308.837 18	1.1	7047
*11895	R (1, −8 ; 13)	GR	←	(0, −7 ; 12)	GR	E	308.917 59	0.9	7333
*11896	R (2, −4 ; 10)	GR	←	(1, −3 ; 9)	GR	E	308.930 18	0.9	2190
*11897	R (1, 10 ; 26)	GR	←	(0, 9 ; 25)	GR	A	309.000 27	0.5	5523
*11898	R (1, 9 ; 21)	GR	←	(0, 8 ; 20)	GR	E	309.218 85	1.1	5619
*11899	R (1, 4 ; 6)	GR	←	(0, 3 ; 5)	GR	A	309.287 17	0.0	7904
*11900	R (1, −1 ; 28)	GR	←	(0, −2 ; 27)	GR	E	309.354 88	0.1	3714
*11901	R (2, 5 ; 26)	GR	←	(1, 4 ; 25)	GR	A	309.521 27	−0.9	2857
*11902	P (2, 4 ; 4)	GR	←	(1, 5 ; 5)	GR	E	309.585 52	−1.2	1523
*11903	R (1, 3 ; 24)	GR	←	(0, 2 ; 23)	GR	E	309.783 33	2.4	3047
*11904	P (2, 2 ; 14)	GR	←	(1, 3 ; 15)	GR	A	310.022 40	−1.2	2000
*11905	R (1, 2 ; 31)	GR	←	(0, 1 ; 30)	GR	E	310.084 81	0.6	2000
*11906	R (1, −1 ; 20)	GR	←	(0, 0 ; 19)	GR	E	310.132 43	0.2	4857
*11907	R (1, 0 +; 18)	GR	←	(0, 1 −; 17)	GR	A	310.150 80	1.0	7238
*11908	Q (2, 6 ; 19)	GR	←	(0, 7 ; 19)	GR	E	310.386 87	−1.9	1428
*11909	R (1, −8 ; 14)	GR	←	(0, −7 ; 13)	GR	E	310.427 54	−0.4	8190
*11910	R (1, 10 ; 27)	GR	←	(0, 9 ; 26)	GR	A	310.464 06	−0.4	4952
*11911	R (2, −4 ; 11)	GR	←	(1, −3 ; 10)	GR	E	310.477 52	1.0	1809
*11912	Q (2, 6 ; 18)	GR	←	(0, 7 ; 18)	GR	E	310.488 24	−0.6	1809
*11913	R (1, −1 ; 29)	GR	←	(0, −2 ; 28)	GR	E	310.498 45	−0.6	3142
*11914	Q (2, 6 ; 17)	GR	←	(0, 7 ; 17)	GR	E	310.584 67	−0.5	1619
*11915	Q (2, 6 ; 16)	GR	←	(0, 7 ; 16)	GR	E	310.676 31	−0.6	758
*11916	R (1, 9 ; 22)	GR	←	(0, 8 ; 21)	GR	E	310.696 66	0.6	5809
*11917	Q (2, 6 ; 15)	GR	←	(0, 7 ; 15)	GR	E	310.762 74	−1.7	1904
*11918	R (1, 4 ; 7)	GR	←	(0, 3 ; 6)	GR	A	310.833 42	0.6	7904
*11919	Q (2, 6 ; 14)	GR	←	(0, 7 ; 14)	GR	E	310.844 46	−0.9	2000
*11920	R (2, 5 ; 27)	GR	←	(1, 4 ; 26)	GR	A	310.853 10	0.1	2761
11921	P (2, −1 ; 23)	GR	←	(0, −2 ; 24)	GR	E	310.913 55	−3.5	4285
*11922	Q (2, 6 ; 13)	GR	←	(0, 7 ; 13)	GR	E	310.921 50	2.2	1904
*11923	Q (2, 6 ; 12)	GR	←	(0, 7 ; 12)	GR	E	310.992 35	−1.6	1904
*11924	Q (2, 6 ; 11)	GR	←	(0, 7 ; 11)	GR	E	311.058 58	−0.2	1809
*11925	R (1, 3 ; 25)	GR	←	(0, 2 ; 24)	GR	E	311.081 05	2.2	2666
*11926	Q (2, 6 ; 10)	GR	←	(0, 7 ; 10)	GR	E	311.119 31	−0.9	1809
*11927	Q (2, 6 ; 9)	GR	←	(0, 7 ; 9)	GR	E	311.174 92	−0.8	1619
*11928	Q (2, 6 ; 8)	GR	←	(0, 7 ; 8)	GR	E	311.224 95	−0.6	1238
*11929	R (1, 0 +; 19)	GR	←	(0, 1 −; 18)	GR	A	311.454 51	1.4	6952
*11930	R (1, 2 ; 32)	GR	←	(0, 1 ; 31)	GR	E	311.572 99	1.2	2095
*11931	R (1, −1 ; 30)	GR	←	(0, −2 ; 29)	GR	E	311.618 52	0.4	2761
*11932	P (2, 2 ; 13)	GR	←	(1, 3 ; 14)	GR	A	311.633 23	−0.6	2095
*11933	R (1, −1 ; 21)	GR	←	(0, 0 ; 20)	GR	E	311.866 18	0.2	4571
*11934	R (1, 10 ; 28)	GR	←	(0, 9 ; 27)	GR	A	311.925 54	0.5	5047
*11935	R (1, −8 ; 15)	GR	←	(0, −7 ; 14)	GR	E	311.933 23	0.6	7428
*11936	R (2, −4 ; 12)	GR	←	(1, −3 ; 11)	GR	E	312.022 95	0.8	2285
*11937	R (2, 5 ; 28)	GR	←	(1, 4 ; 27)	GR	A	312.167 81	−0.9	2666
*11938	R (1, 9 ; 23)	GR	←	(0, 8 ; 22)	GR	E	312.171 12	−0.3	5238
*11939	R (1, 3 ; 26)	GR	←	(0, 2 ; 25)	GR	E	312.369 66	−0.2	2571
*11940	R (1, 4 ; 8)	GR	←	(0, 3 ; 7)	GR	A	312.376 92	1.1	7809
*11941	R (1, −1 ; 31)	GR	←	(0, −2 ; 30)	GR	E	312.734 73	0.0	2476
*11942	R (1, 0 +; 20)	GR	←	(0, 1 −; 19)	GR	A	312.748 96	0.5	6380
*11943	P (2, −1 ; 22)	GR	←	(0, −2 ; 23)	GR	E	312.847 72	2.6	1523
*11944	P (2, 2 ; 12)	GR	←	(1, 3 ; 13)	GR	A	313.240 92	0.3	2476
*11945	R (1, 10 ; 29)	GR	←	(0, 9 ; 28)	GR	A	313.384 85	0.6	4476
*11946	R (1, −8 ; 16)	GR	←	(0, −7 ; 15)	GR	E	313.434 74	0.9	7333
*11947	R (2, 5 ; 29)	GR	←	(1, 4 ; 28)	GR	A	313.465 79	0.4	2285
*11948	R (2, −4 ; 13)	GR	←	(1, −3 ; 12)	GR	E	313.566 50	−1.4	1809
*11949	R (1, −1 ; 22)	GR	←	(0, 0 ; 21)	GR	E	313.622 77	1.5	4285
*11950	R (1, 9 ; 24)	GR	←	(0, 8 ; 23)	GR	E	313.642 51	−0.2	5142
*11951	R (1, 3 ; 27)	GR	←	(0, 2 ; 26)	GR	E	313.649 94	−0.3	2000
*11952	R (1, 4 ; 9)	GR	←	(0, 3 ; 8)	GR	A	313.918 00	0.4	7714
*11953	R (1, 0 +; 21)	GR	←	(0, 1 −; 20)	GR	A	314.035 41	−0.2	6571
*11954	Q (1, 6 ; 31)	GR	←	(0, 5 ; 31)	GR	E	314.122 93	0.3	2000
*11955	R (1, 7 ; 7)	GR	←	(0, 6 ; 6)	GR	A	314.296 22	0.0	8857
*11956	Q (1, 6 ; 30)	GR	←	(0, 5 ; 30)	GR	E	314.366 58	−0.4	2190
*11957	Q (1, 6 ; 29)	GR	←	(0, 5 ; 29)	GR	E	314.600 34	0.9	2285
*11958	R (2, 5 ; 30)	GR	←	(1, 4 ; 29)	GR	A	314.746 75	−1.4	1809
*11959	P (2, −1 ; 21)	GR	←	(0, −2 ; 22)	GR	E	314.752 71	−0.9	1333
*11960	Q (1, 6 ; 28)	GR	←	(0, 5 ; 28)	GR	E	314.823 77	0.3	3047
*11961	R (1, 10 ; 30)	GR	←	(0, 9 ; 29)	GR	A	314.842 12	1.4	4000
*11962	P (2, 2 ; 11)	GR	←	(1, 3 ; 12)	GR	A	314.845 17	0.1	2476
*11963	R (1, 3 ; 28)	GR	←	(0, 2 ; 27)	GR	A	314.922 17	1.5	1714
*11964	R (1, −8 ; 17)	GR	←	(0, −7 ; 16)	GR	E	314.931 99	0.4	6857
*11965	Q (1, 6 ; 27)	GR	←	(0, 5 ; 27)	GR	E	315.037 10	0.6	3333
*11966	R (2, −4 ; 14)	GR	←	(1, −3 ; 13)	GR	E	315.108 94	2.1	2000
*11967	R (1, 9 ; 25)	GR	←	(0, 8 ; 24)	GR	E	315.110 95	1.1	4476
*11968	Q (1, 6 ; 26)	GR	←	(0, 5 ; 26)	GR	E	315.239 55	−0.2	3619
*11969	R (1, 0 +; 22)	GR	←	(0, 1 −; 21)	GR	A	315.315 08	0.7	6952
*11970	R (1, −1 ; 23)	GR	←	(0, 0 ; 22)	GR	E	315.402 30	0.2	3809
*11971	Q (1, 6 ; 25)	GR	←	(0, 5 ; 25)	GR	E	315.431 56	1.1	4285
*11972	R (1, 4 ; 10)	GR	←	(0, 3 ; 9)	GR	A	315.457 42	0.1	8000
*11973	Q (1, 6 ; 24)	GR	←	(0, 5 ; 24)	GR	E	315.612 69	0.7	4380
*11974	Q (1, 6 ; 23)	GR	←	(0, 5 ; 23)	GR	E	315.782 90	1.0	4666
*11975	R (1, 7 ; 8)	GR	←	(0, 6 ; 7)	GR	A	315.834 06	−0.1	8571
*11976	Q (1, 6 ; 22)	GR	←	(0, 5 ; 22)	GR	E	315.942 19	−0.7	4666
*11977	R (2, 5 ; 31)	GR	←	(1, 4 ; 30)	GR	A	316.011 11	−0.7	2000
*11978	Q (1, 6 ; 21)	GR	←	(0, 5 ; 21)	GR	E	316.090 72	0.2	5047
*11979	R (1, 3 ; 29)	GR	←	(0, 2 ; 28)	GR	E	316.185 95	−0.7	1619
*11980	Q (1, 6 ; 20)	GR	←	(0, 5 ; 20)	GR	E	316.228 35	−0.1	6190
*11981	R (1, 10 ; 31)	GR	←	(0, 9 ; 30)	GR	A	316.297 67	2.1	3619
*11982	Q (1, 6 ; 19)	GR	←	(0, 5 ; 19)	GR	E	316.355 37	−0.3	5619
*11983	R (1, −8 ; 18)	GR	←	(0, −7 ; 17)	GR	E	316.425 23	0.6	7238
*11984	P (2, 2 ; 10)	GR	←	(1, 3 ; 11)	GR	A	316.446 46	−2.0	2571
*11985	Q (1, 6 ; 18)	GR	←	(0, 5 ; 18)	GR	E	316.472 18	0.2	6000
*11986	R (1, 9 ; 26)	GR	←	(0, 8 ; 25)	GR	E	316.576 44	−0.1	4952
*11987	Q (1, 6 ; 17)	GR	←	(0, 5 ; 17)	GR	E	316.578 77	−0.8	6952
*11988	R (1, 0 +; 23)	GR	←	(0, 1 −; 22)	GR	A	316.588 99	0.0	5904
*11989	P (2, −1 ; 20)	GR	←	(0, −2 ; 21)	GR	E	316.629 64	−0.3	1714
*11990	R (2, −4 ; 15)	GR	←	(1, −3 ; 14)	GR	E	316.649 25	0.4	2000
*11991	Q (1, 6 ; 16)	GR	←	(0, 5 ; 16)	GR	E	316.675 82	0.1	6380
*11992	Q (1, 6 ; 15)	GR	←	(0, 5 ; 15)	GR	E	316.763 74	0.7	6571
*11993	Q (1, 6 ; 14)	GR	←	(0, 5 ; 14)	GR	E	316.842 86	0.1	7142
*11994	Q (1, 6 ; 13)	GR	←	(0, 5 ; 13)	GR	E	316.913 84	0.5	6761
*11995	Q (1, 6 ; 12)	GR	←	(0, 5 ; 12)	GR	E	316.977 13	−0.5	6761
*11996	R (1, 4 ; 11)	GR	←	(0, 3 ; 10)	GR	A	316.995 77	−1.0	8666
*11997	Q (1, 6 ; 11)	GR	←	(0, 5 ; 11)	GR	E	317.033 45	0.3	6952
*11998	Q (1, 6 ; 10)	GR	←	(0, 5 ; 10)	GR	E	317.083 14	1.3	6476
*11999	Q (1, 6 ; 9)	GR	←	(0, 5 ; 9)	GR	E	317.126 68	1.0	6190
*12000	R (1, 8 ; 8)	GR	←	(0, 7 ; 7)	GR	A	317.147 35	1.0	7523

cm 1 2 3 4 5 6 7 8 unesp 12 13 14 15 16 17 18 19

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*12001	Q (1, 6 ; 8) GR	←	(0, 5 ; 8) GR	E	317.164 57	0.6	5904
*12002	Q (1, 6 ; 7) GR	←	(0, 5 ; 7) GR	E	317.197 20	0.4	4952
*12003	R (1, −1 ; 24) GR	←	(0, 0 ; 23) GR	E	317.205 44	0.9	3619
*12004	Q (1, 6 ; 6) GR	←	(0, 5 ; 6) GR	E	317.225 08	0.7	3619
*12005	R (1, 7 ; 9) GR	←	(0, 6 ; 8) GR	A	317.367 26	−0.1	8571
*12006	R (1, 10 ; 32) GR	←	(0, 9 ; 31) GR	A	317.751 58	0.4	3333
*12007	Q (1, −5 ; 29) GR	←	(0, −4 ; 29) GR	E	317.813 07	1.3	3619
*12008	Q (1, −5 ; 30) GR	←	(0, −4 ; 30) GR	E	317.813 07	−0.2	3619
*12009	Q (1, −5 ; 28) GR	←	(0, −4 ; 28) GR	E	317.819 32	1.6	3809
*12010	Q (1, −5 ; 31) GR	←	(0, −4 ; 31) GR	E	317.819 32	−0.9	3809
*12011	Q (1, −5 ; 27) GR	←	(0, −4 ; 27) GR	E	317.830 74	−0.2	3238
12012	Q (1, −5 ; 32) GR	←	(0, −4 ; 32) GR	E	317.832 57	5.9	1242
*12013	Q (1, −5 ; 26) GR	←	(0, −4 ; 26) GR	E	317.847 87	1.5	3714
*12014	R (1, 0 +; 24) GR	←	(0, 1 −; 23) GR	A	317.858 76	0.8	5619
*12015	Q (1, −5 ; 25) GR	←	(0, −4 ; 25) GR	E	317.869 65	0.7	3904
*12016	Q (1, −5 ; 24) GR	←	(0, −4 ; 24) GR	E	317.895 95	−0.5	4476
*12017	R (1, −8 ; 19) GR	←	(0, −7 ; 18) GR	E	317.914 65	0.8	6666
*12018	Q (1, −5 ; 23) GR	←	(0, −4 ; 23) GR	E	317.926 48	0.4	4666
*12019	Q (1, −5 ; 22) GR	←	(0, −4 ; 22) GR	E	317.960 58	0.8	4952
*12020	Q (1, −5 ; 21) GR	←	(0, −4 ; 21) GR	E	317.997 73	−0.1	4952
*12021	Q (1, −5 ; 20) GR	←	(0, −4 ; 20) GR	E	318.037 49	0.6	5904
*12022	R (1, 9 ; 27) GR	←	(0, 8 ; 26) GR	E	318.039 31	−0.4	4190
*12023	P (2, 2 ; 9) GR	←	(1, 3 ; 10) GR	A	318.044 86	−0.6	2571
*12024	Q (1, −5 ; 19) GR	←	(0, −4 ; 19) GR	E	318.079 47	1.3	5809
*12025	Q (1, −5 ; 18) GR	←	(0, −4 ; 18) GR	E	318.122 82	−0.6	6095
*12026	Q (1, −5 ; 17) GR	←	(0, −4 ; 17) GR	E	318.167 51	0.2	6571
*12027	R (2, −4 ; 16) GR	←	(1, −3 ; 15) GR	E	318.188 36	2.3	2857
*12028	Q (1, −5 ; 16) GR	←	(0, −4 ; 16) GR	E	318.212 70	0.1	6571
*12029	Q (1, −5 ; 15) GR	←	(0, −4 ; 15) GR	E	318.257 96	−0.2	6571
*12030	Q (1, −5 ; 14) GR	←	(0, −4 ; 14) GR	E	318.302 87	1.1	6095
*12031	Q (1, −5 ; 13) GR	←	(0, −4 ; 13) GR	E	318.346 90	0.9	6571
*12032	Q (1, −5 ; 12) GR	←	(0, −4 ; 12) GR	E	318.389 69	0.5	6476
*12033	Q (1, −5 ; 11) GR	←	(0, −4 ; 11) GR	E	318.430 84	0.4	6857
*12034	Q (1, −5 ; 10) GR	←	(0, −4 ; 10) GR	E	318.469 92	0.0	6190
*12035	P (2, −1 ; 19) GR	←	(0, −2 ; 20) GR	E	318.478 09	−2.2	2095
*12036	Q (1, −5 ; 9) GR	←	(0, −4 ; 9) GR	E	318.506 64	0.4	5809
*12037	R (1, 4 ; 12) GR	←	(0, 3 −; 11) GR	A	318.533 21	3.7	6571
12038	R (1, 4 ; 12) GR	←	(0, 3 +; 11) GR	A	318.534 01	−3.0	6666
*12039	Q (1, −5 ; 8) GR	←	(0, −4 ; 8) GR	E	318.540 57	0.1	5714
*12040	Q (1, −5 ; 7) GR	←	(0, −4 ; 7) GR	E	318.571 47	−0.1	5523
*12041	Q (1, −5 ; 6) GR	←	(0, −4 ; 6) GR	E	318.599 17	0.4	4666
*12042	Q (1, −5 ; 5) GR	←	(0, −4 ; 5) GR	E	318.623 37	0.7	2952
*12043	R (1, 8 ; 9) GR	←	(0, 7 ; 8) GR	A	318.668 03	0.6	7238
*12044	R (1, 7 ; 10) GR	←	(0, 6 ; 9) GR	A	318.895 98	−0.2	8761
*12045	R (1, −1 ; 25) GR	←	(0, 0 ; 24) GR	E	319.031 61	−1.6	3142
*12046	R (1, 0 +; 25) GR	←	(0, 1 −; 24) GR	A	319.125 79	0.6	5809
*12047	R (1, 10 ; 33) GR	←	(0, 9 ; 32) GR	A	319.204 05	−0.1	2952
*12048	R (1, −8 ; 20) GR	←	(0, −7 ; 19) GR	E	319.400 03	0.1	6190
*12049	R (1, 9 ; 28) GR	←	(0, 8 ; 27) GR	E	319.499 86	0.3	3142
*12050	P (2, 2 ; 8) GR	←	(1, 3 ; 9) GR	A	319.640 33	0.0	2476
*12051	R (2, −4 ; 17) GR	←	(1, −3 ; 16) GR	E	319.725 60	−2.2	1238
*12052	R (1, 4 ; 13) GR	←	(0, 3 −; 12) GR	A	320.070 43	0.5	6190
*12053	R (1, 4 ; 13) GR	←	(0, 3 +; 12) GR	A	320.073 02	0.2	6000
*12054	R (1, 8 ; 10) GR	←	(0, 7 ; 9) GR	A	320.182 78	0.0	7428
*12055	P (2, −1 ; 18) GR	←	(0, −2 ; 19) GR	E	320.299 43	0.1	2190
*12056	R (1, 0 +; 26) GR	←	(0, 1 −; 25) GR	A	320.391 67	1.5	4857
*12057	R (1, 7 ; 11) GR	←	(0, 6 ; 10) GR	A	320.420 26	1.0	8476
*12058	R (1, 10 ; 34) GR	←	(0, 9 ; 33) GR	A	320.655 34	0.0	2190
12059	R (1, −1 ; 26) GR	←	(0, 0 ; 25) GR	E	320.881 89	6.0	6380
*12060	R (1, −8 ; 21) GR	←	(0, −7 ; 20) GR	E	320.881 89	0.2	6380
*12061	R (1, 9 ; 29) GR	←	(0, 8 ; 28) GR	E	320.958 37	0.8	2857
*12062	P (2, 2 ; 7) GR	←	(1, 3 ; 8) GR	A	321.232 79	0.6	2761
*12063	R (2, −4 ; 18) GR	←	(1, −3 ; 17) GR	E	321.262 81	2.8	1523
*12064	R (1, 4 ; 14) GR	←	(0, 3 −; 13) GR	A	321.608 67	0.7	6285
*12065	R (1, 4 ; 14) GR	←	(0, 3 +; 13) GR	A	321.612 85	0.2	5904
*12066	R (1, 0 +; 27) GR	←	(0, 1 −; 26) GR	A	321.657 82	1.4	4761
*12067	R (1, 8 ; 11) GR	←	(0, 7 ; 10) GR	A	321.691 70	0.7	7428
*12068	R (1, 7 ; 12) GR	←	(0, 6 ; 11) GR	A	321.939 96	0.9	8285
*12069	P (2, −1 ; 17) GR	←	(0, −2 ; 18) GR	E	322.094 12	−0.2	2285
*12070	R (1, 10 ; 35) GR	←	(0, 9 ; 34) GR	A	322.105 86	−1.3	2000
*12071	R (1, −8 ; 22) GR	←	(0, −7 ; 21) GR	E	322.360 15	0.1	5619
*12072	R (1, 9 ; 30) GR	←	(0, 8 ; 29) GR	E	322.414 86	−0.7	2761
*12073	R (1, −1 ; 27) GR	←	(0, 0 ; 26) GR	E	322.754 23	0.4	2095
*12074	R (2, −4 ; 19) GR	←	(1, −3 ; 18) GR	E	322.797 88	0.3	1523
*12075	P (2, 2 ; 6) GR	←	(1, 3 ; 7) GR	A	322.822 15	−0.5	3047

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*12076	R (1, 4 ; 15) GR	←	(0, 3 −; 14) GR	A	323.148 18	0.4	6190
*12077	R (1, 4 ; 15) GR	←	(0, 3 +; 14) GR	A	323.154 70	0.3	5809
*12078	R (1, 8 ; 12) GR	←	(0, 7 ; 11) GR	A	323.194 61	−0.1	7238
*12079	R (1, 7 ; 13) GR	←	(0, 6 ; 12) GR	A	323.455 27	0.6	8571
*12080	R (1, −8 ; 23) GR	←	(0, −7 ; 22) GR	E	323.835 00	1.1	5333
*12081	P (2, −1 ; 16) GR	←	(0, −2 ; 17) GR	E	323.863 92	−2.2	2285
*12082	R (1, 9 ; 31) GR	←	(0, 8 ; 30) GR	E	323.870 29	0.9	2666
*12083	R (2, −4 ; 20) GR	←	(1, −3 ; 19) GR	E	324.332 85	2.9	1619
*12084	P (2, 2 ; 5) GR	←	(1, 3 ; 6) GR	A	324.409 08	0.4	3047
12085	R (1, 9 ; 12) GR	←	(0, 7 ; 11) GR	A	324.429 07	−6.0	1428
*12086	R (1, −1 ; 28) GR	←	(0, 0 ; 27) GR	E	324.650 03	−0.4	2666
*12087	R (1, 4 ; 16) GR	←	(0, 3 −; 15) GR	A	324.689 66	1.0	5809
*12088	R (1, 8 ; 13) GR	←	(0, 7 ; 12) GR	A	324.691 61	0.4	6761
*12089	R (1, 4 ; 16) GR	←	(0, 3 +; 15) GR	A	324.699 46	0.8	5428
*12090	R (1, 7 ; 14) GR	←	(0, 6 ; 13) GR	A	324.966 09	0.4	8380
*12091	R (1, −8 ; 24) GR	←	(0, −7 ; 23) GR	E	325.306 38	−0.4	5428
*12092	R (1, 9 ; 32) GR	←	(0, 8 ; 31) GR	E	325.324 09	0.5	1619
*12093	P (2, −1 ; 15) GR	←	(0, −2 ; 16) GR	E	325.611 31	−0.9	2095
*12094	Q (2, 4 ; 14) GR	←	(1, 3 ; 14) GR	E	325.772 52	1.9	3619
12095	Q (2, 4 ; 13) GR	←	(1, 3 ; 13) GR	E	325.772 52	−7.1	3619
*12096	Q (2, 4 ; 15) GR	←	(1, 3 ; 15) GR	E	325.776 80	0.5	3333
*12097	Q (2, 4 ; 12) GR	←	(1, 3 ; 12) GR	E	325.779 27	0.2	2952
12098	Q (2, 4 ; 16) GR	←	(1, 3 ; 16) GR	E	325.788 18	4.2	4571
*12099	Q (2, 4 ; 11) GR	←	(1, 3 ; 11) GR	E	325.788 18	−1.4	4571
*12100	Q (2, 4 ; 10) GR	←	(1, 3 ; 10) GR	E	325.800 53	−1.4	2857
*12101	Q (2, 4 ; 17) GR	←	(1, 3 ; 17) GR	E	325.806 34	0.6	2571
*12102	Q (2, 4 ; 9) GR	←	(1, 3 ; 9) GR	E	325.814 37	−1.2	2761
*12103	Q (2, 4 ; 8) GR	←	(1, 3 ; 8) GR	E	325.829 20	−2.4	2476
*12104	Q (2, 4 ; 18) GR	←	(1, 3 ; 18) GR	E	325.833 24	−1.6	2476
*12105	Q (2, 4 ; 7) GR	←	(1, 3 ; 7) GR	E	325.844 68	0.6	2571
12106	Q (2, 4 ; 6) GR	←	(1, 3 ; 6) GR	E	325.859 59	2.8	2000
*12107	Q (2, 4 ; 19) GR	←	(1, 3 ; 19) GR	E	325.870 24	2.2	2285
12108	Q (2, 4 ; 5) GR	←	(1, 3 ; 5) GR	E	325.873 28	3.1	2285
*12109	Q (2, 4 ; 4) GR	←	(1, 3 ; 4) GR	E	325.886 00	2.4	1523
*12110	Q (2, 4 ; 20) GR	←	(1, 3 ; 20) GR	E	325.916 60	−0.4	1619
*12111	R (1, 9 ; 13) GR	←	(0, 7 ; 12) GR	A	325.952 83	1.3	2380
*12112	Q (2, 4 ; 21) GR	←	(1, 3 ; 21) GR	E	325.974 38	−0.2	1714
*12113	P (2, 2 ; 4) GR	←	(1, 3 ; 5) GR	A	325.993 12	0.5	2000
*12114	Q (2, 4 ; 22) GR	←	(1, 3 ; 22) GR	E	326.043 53	−1.1	1809
*12115	Q (2, 4 ; 23) GR	←	(1, 3 ; 23) GR	E	326.125 24	1.7	2190
*12116	R (1, 8 ; 14) GR	←	(0, 7 ; 13) GR	A	326.182 76	1.2	6761
12117	Q (2, 4 ; 24) GR	←	(1, 3 ; 24) GR	E	326.219 31	3.1	1714
*12118	R (1, 4 ; 17) GR	←	(0, 3 −; 16) GR	A	326.233 65	1.7	5333
*12119	R (1, 4 ; 17) GR	←	(0, 3 +; 16) GR	A	326.247 80	−0.3	5428
*12120	R (1, 7 ; 15) GR	←	(0, 6 ; 14) GR	A	326.472 74	0.7	7904
*12121	R (1, −5 ; 5) GR	←	(0, −4 ; 4) GR	E	326.494 67	−0.2	7619
*12122	R (1, −1 ; 29) GR	←	(0, 0 ; 28) GR	E	326.568 47	0.2	1714
*12123	R (1, 6 ; 6) GR	←	(0, 5 ; 5) GR	E	326.669 55	0.5	7523
*12124	R (1, −8 ; 25) GR	←	(0, −7 ; 24) GR	E	326.774 88	1.5	5428
*12125	R (1, 9 ; 33) GR	←	(0, 8 ; 32) GR	E	326.777 56	−1.2	2761
*12126	P (2, −1 ; 14) GR	←	(0, −2 ; 15) GR	E	327.338 10	1.8	2476
*12127	R (1, 9 ; 14) GR	←	(0, 7 ; 13) GR	A	327.471 07	3.4	1714
*12128	P (2, 2 ; 3) GR	←	(1, 3 ; 4) GR	A	327.574 56	0.6	2380
*12129	R (1, 8 ; 15) GR	←	(0, 7 ; 14) GR	A	327.667 83	1.2	6761
12130	R (1, 4 ; 18) GR	←	(0, 3 −; 17) GR	A	327.780 52	2.1	5333
*12131	R (1, 4 ; 18) GR	←	(0, 3 +; 17) GR	A	327.800 59	−0.6	5047
*12132	R (1, 7 ; 16) GR	←	(0, 6 ; 15) GR	A	327.975 08	1.1	8095
*12133	R (1, −5 ; 6) GR	←	(0, −4 ; 5) GR	E	328.044 47	0.9	7238
*12134	R (1, 6 ; 7) GR	←	(0, 5 ; 6) GR	E	328.215 16	0.8	7809
*12135	R (1, −8 ; 26) GR	←	(0, −7 ; 25) GR	E	328.240 03	0.3	5047
*12136	R (1, −1 ; 30) GR	←	(0, 0 ; 29) GR	E	328.507 32	1.7	3619
*12137	R (1, 9 ; 15) GR	←	(0, 7 ; 14) GR	A	328.983 32	0.4	2000
*12138	P (2, −1 ; 13) GR	←	(0, −2 ; 14) GR	E	329.046 00	1.3	2380
*12139	R (1, 8 ; 16) GR	←	(0, 7 ; 15) GR	A	329.146 79	1.0	6380
*12140	P (2, 2 ; 2) GR	←	(1, 3 ; 3) GR	A	329.153 12	−0.2	2571
*12141	R (1, 4 ; 19) GR	←	(0, 3 −; 18) GR	A	329.330 48	1.1	4571
12142	R (1, 4 ; 19) GR	←	(0, 3 +; 18) GR	A	329.358 66	0.0	5047
*12143	R (1, 7 ; 17) GR	←	(0, 6 ; 16) GR	A	329.473 07	−0.4	8190
*12144	R (1, −5 ; 7) GR	←	(0, −4 ; 6) GR	E	329.590 42	0.9	7238
*12145	R (1, −8 ; 27) GR	←	(0, −7 ; 26) GR	E	329.702 54	0.5	4380
*12146	R (1, 6 ; 8) GR	←	(0, 5 ; 7) GR	E	329.755 61	0.4	8000
*12147	R (1, 9 ; 16) GR	←	(0, 7 ; 15) GR	A	330.490 16	−1.7	1523
*12148	R (1, 8 ; 17) GR	←	(0, 7 ; 16) GR	A	330.619 77	0.6	5904
*12149	P (2, −1 ; 12) GR	←	(0, −2 ; 13) GR	E	330.737 20	1.5	2857
*12150	R (1, 4 ; 20) GR	←	(0, 3 −; 19) GR	A	330.884 03	1.2	3809



Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*12151	R (1, 4 ; 20) GR	←	(0, 3 +; 19) GR	A	330.922 87	1.5	4095
*12152	R (1, 7 ; 18) GR	←	(0, 6 ; 17) GR	A	330.967 08	0.5	8190
*12153	R (1, −5 ; 8) GR	←	(0, −4 ; 7) GR	E	331.132 74	0.0	7619
*12154	R (1, −8 ; 28) GR	←	(0, −7 ; 27) GR	E	331.162 52	1.5	3809
*12155	R (1, 6 ; 9) GR	←	(0, 5 ; 8) GR	E	331.290 42	−0.2	7428
*12156	R (1, 9 ; 17) GR	←	(0, 7 ; 16) GR	A	331.991 92	1.7	2095
*12157	R (1, 8 ; 18) GR	←	(0, 7 ; 17) GR	A	332.086 50	0.1	6000
12158	R (2, 4 ; 4) GR	←	(1, 3 ; 3) GR	E	332.166 54	−5.4	3523
*12159	P (2, −1 ; 11) GR	←	(0, −2 ; 12) GR	E	332.413 34	1.4	3428
*12160	R (1, 4 ; 21) GR	←	(0, 3 −; 20) GR	A	332.441 02	−0.7	4380
*12161	R (1, 7 ; 19) GR	←	(0, 6 ; 18) GR	A	332.457 11	1.1	8190
*12162	R (1, 4 ; 21) GR	←	(0, 3 +; 20) GR	A	332.493 38	−0.4	4190
*12163	R (1, −8 ; 29) GR	←	(0, −7 ; 28) GR	E	332.619 66	1.0	2666
*12164	R (1, −5 ; 9) GR	←	(0, −4 ; 8) GR	E	332.671 78	−0.3	7238
*12165	R (1, 6 ; 10) GR	←	(0, 5 ; 9) GR	E	332.819 45	1.3	7238
*12166	Q (2, 2 ; 23) GR	←	(1, 3 −; 23) GR	A	332.984 21	0.6	1428
12167	Q (2, 2 ; 23) GR	←	(1, 3 +; 23) GR	A	332.986 44	4.3	1047
12168	Q (2, 2 ; 22) GR	←	(1, 3 −; 22) GR	A	333.068 25	6.1	0
*12169	Q (2, 2 ; 22) GR	←	(1, 3 +; 22) GR	A	333.069 05	−0.3	0
*12170	Q (2, 2 ; 21) GR	←	(1, 3 ; 21) GR	A	333.146 12	−1.0	1809
*12171	Q (2, 2 ; 20) GR	←	(1, 3 ; 20) GR	A	333.219 23	0.6	2285
*12172	Q (2, 2 ; 19) GR	←	(1, 3 ; 19) GR	A	333.287 63	1.4	2571
*12173	Q (2, 2 ; 18) GR	←	(1, 3 ; 18) GR	A	333.351 34	1.1	2571
*12174	Q (2, 2 ; 17) GR	←	(1, 3 ; 17) GR	A	333.410 57	−0.4	2571
*12175	Q (2, 2 ; 16) GR	←	(1, 3 ; 16) GR	A	333.465 52	−0.7	2952
*12176	R (1, 9 ; 18) GR	←	(0, 7 ; 17) GR	A	333.487 27	1.4	2000
*12177	Q (2, 2 ; 15) GR	←	(1, 3 ; 15) GR	A	333.516 39	−1.5	2952
*12178	R (1, 8 ; 19) GR	←	(0, 7 ; 18) GR	A	333.547 23	1.3	5809
*12179	Q (2, 2 ; 14) GR	←	(1, 3 ; 14) GR	A	333.563 87	2.2	3142
*12180	Q (2, 2 ; 13) GR	←	(1, 3 ; 13) GR	A	333.606 75	−0.4	3333
*12181	Q (2, 2 ; 12) GR	←	(1, 3 ; 12) GR	A	333.646 50	0.7	3619
*12182	Q (2, 2 ; 11) GR	←	(1, 3 ; 11) GR	A	333.682 40	0.5	3047
*12183	Q (2, 2 ; 10) GR	←	(1, 3 ; 10) GR	A	333.715 34	1.4	3333
*12184	R (2, 4 ; 5) GR	←	(1, 3 ; 4) GR	E	333.723 63	0.0	3904
*12185	Q (2, 2 ; 9) GR	←	(1, 3 ; 9) GR	A	333.744 91	3.3	2952
*12186	Q (2, 2 ; 8) GR	←	(1, 3 ; 8) GR	A	333.771 01	3.1	5523
*12187	Q (2, 2 ; 7) GR	←	(1, 3 ; 7) GR	A	333.793 87	2.1	2380
*12188	Q (2, 2 ; 6) GR	←	(1, 3 ; 6) GR	A	333.813 72	2.5	2285
*12189	Q (2, 2 ; 5) GR	←	(1, 3 ; 5) GR	A	333.830 51	−0.2	2190
*12190	Q (2, 2 ; 4) GR	←	(1, 3 ; 4) GR	A	333.844 34	−1.9	2190
*12191	Q (2, 2 ; 3) GR	←	(1, 3 ; 3) GR	A	333.855 97	1.0	1238
*12192	R (1, 7 ; 20) GR	←	(0, 6 ; 19) GR	A	333.943 10	0.9	8761
*12193	R (1, 4 ; 22) GR	←	(0, 3 −; 21) GR	A	334.001 82	0.7	2952
*12194	R (1, 4 ; 22) GR	←	(0, 3 +; 21) GR	A	334.071 52	1.2	3619
12195	R (1, −8 ; 30) GR	←	(0, −7 ; 29) GR	E	334.075 38	6.6	3904
12196	P (2, −1 ; 10) GR	←	(0, −2 ; 11) GR	E	334.076 54	4.1	1432
*12197	R (1, −5 ; 10) GR	←	(0, −4 ; 9) GR	E	334.207 80	0.8	6952
12198	Q (2, 5 ; 16) GR	←	(1, 4 ; 16) GR	E	334.336 36	6.3	2095
*12199	R (1, 6 ; 11) GR	←	(0, 5 ; 10) GR	E	334.341 74	1.0	7809
*12200	Q (2, 5 ; 15) GR	←	(1, 4 ; 15) GR	E	334.367 67	2.3	1333
*12201	Q (2, 5 ; 14) GR	←	(1, 4 ; 14) GR	E	334.397 71	−1.2	1238
12202	Q (2, 5 ; 13) GR	←	(1, 4 ; 13) GR	E	334.427 76	9.5	1809
*12203	Q (2, 5 ; 12) GR	←	(1, 4 ; 12) GR	E	334.454 22	−1.0	1619
12204	Q (2, 5 ; 11) GR	←	(1, 4 ; 11) GR	E	334.480 81	6.8	3047
*12205	Q (2, 5 ; 10) GR	←	(1, 4 ; 10) GR	E	334.504 19	−0.3	1619
*12206	Q (2, 5 ; 9) GR	←	(1, 4 ; 9) GR	E	334.526 24	−1.2	1714
*12207	Q (2, 5 ; 8) GR	←	(1, 4 ; 8) GR	E	334.546 85	1.4	1042
*12208	Q (2, 5 ; 7) GR	←	(1, 4 ; 7) GR	E	334.564 70	−1.0	1333
*12209	R (1, 9 ; 19) GR	←	(0, 7 ; 18) GR	A	334.976 42	0.2	2190
*12210	R (1, 8 ; 20) GR	←	(0, 7 ; 19) GR	A	335.001 39	−0.3	5428
*12211	R (2, 4 ; 6) GR	←	(1, 3 ; 5) GR	E	335.278 71	1.4	3904
*12212	R (1, 7 ; 21) GR	←	(0, 6 ; 20) GR	A	335.425 08	−0.6	7523
*12213	R (1, −8 ; 31) GR	←	(0, −7 ; 30) GR	E	335.528 01	3.1	1523
*12214	R (1, 4 ; 23) GR	←	(0, 3 −; 22) GR	A	335.566 01	0.3	3142
*12215	R (1, 4 ; 23) GR	←	(0, 3 +; 22) GR	A	335.657 35	0.9	2952
*12216	P (2, −1 ; 9) GR	←	(0, −2 ; 10) GR	E	335.727 03	1.5	3523
*12217	R (1, −5 ; 11) GR	←	(0, −4 ; 10) GR	E	335.740 98	0.2	6952
*12218	R (1, 6 ; 12) GR	←	(0, 5 ; 11) GR	E	335.857 03	0.3	7904
*12219	R (1, 8 ; 21) GR	←	(0, 7 ; 20) GR	A	336.449 41	−1.8	5238
*12220	R (1, 9 ; 20) GR	←	(0, 7 ; 19) GR	A	336.459 54	2.4	1714
*12221	R (2, 4 ; 7) GR	←	(1, 3 ; 6) GR	E	336.831 79	−0.4	2952
*12222	R (1, 7 ; 22) GR	←	(0, 6 ; 21) GR	A	336.903 44	−1.1	7333
*12223	R (1, −8 ; 32) GR	←	(0, −7 ; 31) GR	E	336.978 57	−0.7	2666
*12224	R (1, 4 ; 24) GR	←	(0, 3 −; 23) GR	A	337.132 71	−0.9	2761
*12225	R (1, 4 ; 24) GR	←	(0, 3 +; 23) GR	A	337.251 21	−1.3	3333

Index	upper state T (n, K ; J) v	←	lower state (n, K ; J) v	σ	$\tilde{\nu}$ /cm^{-1}	$\delta\tilde{\nu}\cdot10^4$ /cm^{-1}	Int. /a.u.
*12226	R (1, −5 ; 12) GR	←	(0, −4 ; 11) GR	E	337.271 66	0.9	6285
*12227	R (1, 6 ; 13) GR	←	(0, 5 ; 12) GR	E	337.364 78	1.1	7904
*12228	P (2, −1 ; 8) GR	←	(0, −2 ; 9) GR	E	337.367 26	1.6	3047
*12229	R (1, 8 ; 22) GR	←	(0, 7 ; 21) GR	A	337.891 03	−0.5	4761
*12230	R (1, 9 ; 21) GR	←	(0, 7 ; 20) GR	A	337.935 49	0.0	0
*12231	R (1, 7 ; 23) GR	←	(0, 6 ; 22) GR	A	338.378 36	1.7	7238
*12232	R (2, 4 ; 8) GR	←	(1, 3 ; 7) GR	E	338.384 12	1.9	2952
*12233	R (1, −8 ; 33) GR	←	(0, −7 ; 32) GR	E	338.427 82	−0.8	2190
*12234	R (1, 4 ; 25) GR	←	(0, 3 −; 24) GR	A	338.702 58	1.6	4000
*12235	R (1, −5 ; 13) GR	←	(0, −4 ; 12) GR	E	338.800 23	0.8	7523
*12236	R (1, 4 ; 25) GR	←	(0, 3 +; 24) GR	A	338.853 95	−1.6	2761
*12237	R (1, 6 ; 14) GR	←	(0, 5 ; 13) GR	E	338.864 18	0.6	7714
*12238	P (2, −1 ; 7) GR	←	(0, −2 ; 8) GR	E	338.997 34	−0.1	3333
*12239	R (1, 8 ; 23) GR	←	(0, 7 ; 22) GR	A	339.326 14	1.8	4380
12240	R (1, 9 ; 22) GR	←	(0, 7 ; 21) GR	A	339.404 64	−4.9	1428
*12241	R (1, 7 ; 24) GR	←	(0, 6 ; 23) GR	A	339.849 52	1.5	6380
*12242	R (1, −8 ; 34) GR	←	(0, −7 ; 33) GR	E	339.875 74	−0.1	1619
*12243	R (2, 4 ; 9) GR	←	(1, 3 ; 8) GR	E	339.935 36	1.3	2952
*12244	R (1, 4 ; 26) GR	←	(0, 3 −; 25) GR	A	340.273 88	2.6	2095
*12245	R (1, −5 ; 14) GR	←	(0, −4 ; 13) GR	E	340.327 02	0.8	7142
*12246	R (1, 6 ; 15) GR	←	(0, 5 ; 14) GR	E	340.354 90	1.0	7333
*12247	R (1, 4 ; 26) GR	←	(0, 3 +; 25) GR	A	340.466 00	0.3	2285
*12248	P (2, −1 ; 6) GR	←	(0, −2 ; 7) GR	E	340.618 92	0.7	3238
*12249	R (1, 8 ; 24) GR	←	(0, 7 ; 23) GR	A	340.754 57	0.3	3428
*12250	R (1, 9 ; 23) GR	←	(0, 7 ; 22) GR	A	340.867 33	−1.4	1523
*12251	R (1, 7 ; 25) GR	←	(0, 6 ; 24) GR	A	341.317 34	2.0	6190
*12252	R (1, −8 ; 35) GR	←	(0, −7 ; 34) GR	E	341.322 87	3.1	1333
*12253	R (2, 4 ; 10) GR	←	(1, 3 ; 9) GR	E	341.486 44	0.4	2666
*12254	R (1, 6 ; 16) GR	←	(0, 5 ; 15) GR	E	341.836 27	−0.1	6761
*12255	R (1, 4 ; 27) GR	←	(0, 3 −; 26) GR	A	341.845 38	−0.4	2285
*12256	R (1, −5 ; 15) GR	←	(0, −4 ; 14) GR	E	341.852 37	0.2	7047
12257	R (1, 4 ; 27) GR	←	(0, 3 +; 26) GR	A	342.086 86	−3.0	1809
*12258	R (1, 8 ; 25) GR	←	(0, 7 ; 24) GR	A	342.175 94	−1.8	6476
*12259	P (2, −1 ; 5) GR	←	(0, −2 ; 6) GR	E	342.232 61	3.2	2380
*12260	R (1, 9 ; 24) GR	←	(0, 7 ; 23) GR	A	342.322 82	−0.4	1523
*12261	R (1, 7 ; 26) GR	←	(0, 6 ; 25) GR	A	342.781 85	1.0	5428
12262	R (2, 4 ; 11) GR	←	(1, 3 ; 10) GR	E	343.038 55	4.5	3428
12263	R (2, 2 ; 6) GR	←	(1, 3 ; 5) GR	A	343.234 45	−5.1	1523
*12264	R (1, 6 ; 17) GR	←	(0, 5 ; 16) GR	E	343.307 88	1.4	6571
*12265	R (1, −5 ; 16) GR	←	(0, −4 ; 15) GR	E	343.376 84	0.3	5904
*12266	R (1, 4 ; 28) GR	←	(0, 3 −; 27) GR	A	343.417 58	2.1	2476
*12267	R (1, 8 ; 26) GR	←	(0, 7 ; 25) GR	A	343.591 38	2.0	3047
*12268	R (1, 4 ; 28) GR	←	(0, 3 +; 27) GR	A	343.717 51	−4.5	3428
*12269	R (1, 9 ; 25) GR	←	(0, 7 ; 24) GR	A	343.770 76	1.1	1809
*12270	P (2, −1 ; 4) GR	←	(0, −2 ; 5) GR	E	343.838 08	−1.3	3428
*12271	R (1, 7 ; 27) GR	←	(0, 6 ; 26) GR	A	344.243 15	0.2	5714
*12272	R (2, 4 ; 12) GR	←	(1, 3 ; 11) GR	E	344.591 71	1.0	2666
*12273	R (1, 6 ; 18) GR	←	(0, 5 ; 17) GR	E	344.768 98	−0.2	6190
12274	R (2, 2 ; 7) GR	←	(1, 3 ; 6) GR	A	344.784 54	−3.9	1714
*12275	R (1, −5 ; 17) GR	←	(0, −4 ; 16) GR	E	344.900 79	1.3	6476
*12276	R (1, 4 ; 29) GR	←	(0, 3 −; 28) GR	A	344.987 53	−2.3	1619
*12277	R (1, 8 ; 27) GR	←	(0, 7 ; 26) GR	A	344.999 14	2.1	2190
12278	P (2, −1 ; 3) GR	←	(0, −2 ; 4) GR	E	345.438 20	9.8	6190
*12279	R (1, 7 ; 28) GR	←	(0, 6 ; 27) GR	A	345.701 47	1.1	5238
*12280	R (2, 4 ; 13) GR	←	(1, 3 ; 12) GR	E	346.147 17	1.0	2571
*12281	R (1, 6 ; 19) GR	←	(0, 5 ; 18) GR	E	346.219 40	1.6	5714
*12282	R (2, 2 ; 8) GR	←	(1, 3 ; 7) GR	A	346.331 60	−0.4	1428
*12283	R (1, 8 ; 28) GR	←	(0, 7 ; 27) GR	A	346.399 84	1.3	2952
*12284	R (1, −5 ; 18) GR	←	(0, −4 ; 17) GR	E	346.424 55	0.9	6000
*12285	P (2, −1 ; 2) GR	←	(0, −2 ; 3) GR	E	347.029 85	2.2	2952
*12286	R (1, 7 ; 29) GR	←	(0, 6 ; 28) GR	A	347.156 85	0.7	4666
*12287	R (1, 6 ; 20) GR	←	(0, 5 ; 19) GR	E	347.658 70	1.9	5904
*12288	R (2, 4 ; 14) GR	←	(1, 3 ; 13) GR	E	347.705 72	−0.2	2666
12289	R (2, 2 ; 9) GR	←	(1, 3 ; 8) GR	A	347.875 37	4.2	2285
*12290	R (1, −5 ; 19) GR	←	(0, −4 ; 18) GR	E	347.948 61	0.3	6190
*12291	R (1, 7 ; 30) GR	←	(0, 6 ; 29) GR	A	348.609 71	1.8	4190
*12292	P (2, −1 ; 1) GR	←	(0, −2 ; 2) GR	E	348.616 17	2.3	2571
*12293	R (1, 6 ; 21) GR	←	(0, 5 ; 20) GR	E	349.086 24	1.0	5809
12294	R (2, 4 ; 15) GR	←	(1, 3 ; 14) GR	E	349.268 92	2.8	2476
*12295	R (2, 2 ; 10) GR	←	(1, 3 ; 9) GR	A	349.415 03	1.7	1523
*12296	R (1, −5 ; 20) GR	←	(0, −4 ; 19) GR	E	349.473 63	0.4	5904

