

Wavenum. (cm ⁻¹)	λ @ 15°C (Å)	λ @ 21°C (Å)	S (10 ⁻²⁷ cm/molecule)	γ _{self} ^{FWHM} (MHz/Torr)	γ _{self} ^{HWHM} (cm ⁻¹ /atm)
11659.92	8574.03	8574.08			
11600.13	8573.88	8573.93			
11664.91	8570.37	8570.41			
11665.03	8570.28	8570.33			
11667.27	8568.63	8568.68			
11683.78	8556.52	8556.57	1.6		
11683.92	8556.42	8556.47	2.9		
11684.03	8556.34	8556.39	2.5		
11684.18	8556.23	8556.28	4.4		
11684.43	8556.05	8556.10	3.7		
11684.58	8555.94	8555.99	3.2		
11684.74	8555.82	8555.87	3.7		
11684.95	8555.67	8555.41	2.5		
11686.83	8554.29	8554.34			
11687.14	8554.06	8554.11			
11687.44	8553.84	8553.89	2.0		
11687.72	8553.64	8553.69			
11694.13	8548.95	8549.00			
11694.39	8548.76	8548.81	4.4		
11694.67	8548.56	8548.61	3.9		
11697.42	8546.55	8546.59			
11697.76	8546.30	8546.35			
11698.02	8546.11	8546.16			
11700.55	8544.26	8544.31	5.4		
11700.85	8544.04	8544.09	6.4		
11700.95	8543.98	8544.02	7.5		
11704.88	8541.10	8541.15			
11706.39	8540.00	8540.04			
11706.48	8539.93	8539.98			
11706.55	8539.89	8539.94			
11706.77	8539.72	8539.77			
11709.79	8537.52	8537.57	1.2		
11709.94	8537.41	8537.46	1.0		
11710.29	8537.15	8537.20	0.6		
11710.546	8536.96	8537.01	1.4		
11711.17	8536.51	8536.56			
11711.41	8536.34	8536.38	3.9		
11711.53	8536.25	8536.30	4.3		
11711.64	8536.17	8536.22	3.2		
11713.715	8534.66	8534.70			
11713.81	8534.59	8534.64			
11720.665	8529.60	8529.65	4.0		
11720.95	8529.39	8529.44	2.6		
11730.12	8522.72	8522.77	2.1		
11730.34	8522.56	8522.61	1.4		
11730.43	8522.50	8522.54	1.2		

Note:

The strengths (S) are only indicative, as they are all obtained by comparison with the reference absorption strengths of water vapor. # 1

CH₃I absorption lines at ~ 850 nm4ν₁ν₀ ~ 11735-11740 cm⁻¹

11730.62	8522.36	8522.41	<i>1.2</i>		
11738.96	8516.30	8516.35			
11739.459	8515.94	8515.99	<i>33.0</i>		
11739.58	8515.85	8515.90	<i>25.0</i>		
11739.69	8515.77	8515.82	<i>30.0</i>		
11739.80	8515.69	8515.74	<i>33.0</i>		
11741.14	8514.72	8514.77	<i>5.0</i>		
11741.39	8514.54	8514.59	<i>3.0</i>	18.3 ± 1.6	0.23 ± 0.02
11748.32	8509.52	8509.57	<i>2.0</i>		
11761.04	8500.31	8500.36	<i>4.4</i>		
11761.747	8499.803	8499.851			
11767.15	8495.90	8495.95	<i>3.1</i>		
11767.29	8495.80	8495.85	<i>3.9</i>		
11767.42	8495.71	8495.75	<i>5.0</i>		
11768.03	8495.26	8495.31	<i>4.3</i>		
11768.13	8495.19	8495.24	<i>5</i>		
11770.45	8493.52	8493.57	<i>3.2</i>		
11772.70	8491.89	8491.94			
11777.29	8488.59	8488.63	<i>2.8</i>		
11777.94	8488.12	8488.17	<i>2.8</i>		
11778.05	8488.04	8488.09	<i>3.4</i>		
11778.274	8487.88	8487.93	<i>4.0</i>	13.9 ± 1.6	0.18 ± 0.02
11785.46	8482.70	8482.75			
11785.65	8482.56	8482.61	<i>1.0</i>		
11786.01	8482.30	8482.35	<i>3.0</i>		
11788.60	8480.44	8480.49	<i>2.0</i>		
11789.28	8479.95	8480.00	<i>5.0</i>		
11798.00	8473.68	8473.73	<i>2.4</i>		
11805.97	8467.96	8468.01			
11806.13	8467.85	8467.90			
11826.25	8453.44	8453.49			
11827.97	8452.21	8452.26			
11841.21	8442.76	8442.81			
11841.39	8442.63	8442.68			
11841.46	8442.59	8442.63			
11842.02	8442.19	8442.23			

Note:

The strengths (S) are only indicative, as they are all obtained by comparison with the reference absorption strengths of water vapor. # 2