

NH<sub>3</sub> observed lines at 790 nm, with some broadening ( $\gamma$ ) and shift ( $\delta$ ) coefficients. In red are the lines observed for the first time.

see Spectrochim. Acta A 60(14), 3381-3386 (2004)

Wavenumber (cm <sup>-1</sup> )	Wavelength @ 15°C (Å)	Wavelength @ 21°C (Å)	$\gamma_{\text{self}}$ (MHz/Torr)	$\gamma_{\text{air}}$ (MHz/Torr)	$\gamma_{\text{H}_2}$ (MHz/Torr)	$\gamma_{\text{He}}$ (MHz/Torr)	$\delta_{\text{self}}$ (MHz/Torr)	$\delta_{\text{air}}$ (MHz/Torr)	$\delta_{\text{H}_2}$ (MHz/Torr)	$\delta_{\text{He}}$ (MHz/Torr)
12784,3711	7819,899	7819,943								
12765,6974	7831,338	7831,382								
12741,7476	7846,058	7846,103								
12740,8248	7846,626	7846,671								
12739,6187	7847,370	7847,414								
12739,0538	7847,717	7847,762	45.4 ± 0.7	7.8 ± 0.1	9.0 ± 0.1	4 ± 1	0.6 ± 0.6	-0.4 ± 0.1	-0.4 ± 0.1	0.2 ± 0.1
12737,7446	7848,524	7848,568								
12737,4225	7848,723	7848,767	46.2 ± 0.1	8.4 ± 0.3	7.7 ± 0.3	3.3 ± 0.3	2.8 ± 0.1	-0.4 ± 0.1	-0.4 ± 0.1	0.1 ± 0.1
12732,5713	7851,713	7851,757								
12730,4149	7853,043	7853,087								
12729,1968	7853,794	7853,838								
12727,7327	7854,698	7854,742								
12725,2892	7856,206	7856,250								
12708,9199	7866,325	7866,369								
12708,4991	7866,585	7866,630	22.8 ± 0.1	8.3 ± 0.7	8.0 ± 0.2	3.2 ± 0.2	-0.9 ± 0.1	-0.2 ± 0.2	-0.4 ± 0.3	0.2 ± 0.1
12706,8725	7867,593	7867,637								
12705,6480	7868,351	7868,395								
12703,9453	7869,405	7869,450								
12699,0802	7872,420	7872,464	39.9 ± 0.4	6.3 ± 0.3	8.1 ± 0.6	3.6 ± 0.8	0.6 ± 0.8	-0.3 ± 0.2	-0.3 ± 0.2	0.0 ± 0.1
12691,4758	7877,137	7877,182								
12691,3449	7877,218	7877,263								
12686,8876	7879,986	7880,030	39 ± 1	18.2 ± 0.9	9.6 ± 0.6	3.8 ± 0.3	0.0 ± 0.5	-0.4 ± 0.3	0.5 ± 0.2	0.8 ± 0.1
12682,7192	7882,576	7882,620	24.0 ± 0.1	6.8 ± 0.3	8.6 ± 0.2	2.9 ± 0.1	-0.7 ± 0.2	-0.3 ± 0.2	-0.3 ± 0.2	0.4 ± 0.1
12679,0531	7884,855	7884,899								
12673,80	7888,124	7888,167								
12673,7237	7888,171	7888,215								
12669,9567	7890,516	7890,561								
12666,2626	7892,817	7892,862	25.2 ± 0.6	7.6 ± 0.1	7.9 ± 0.3	2.9 ± 0.2	-2.9 ± 0.1	-0.1 ± 0.1	-0.4 ± 0.1	0.1 ± 0.1
12665,8310	7893,086	7893,131								
12665,6226	7893,216	7893,261								
12664,9436	7893,639	7893,684								
12663,5804	7894,489	7894,534								
12658,6175	7897,584	7897,628								
12655,8265	7899,326	7899,370								
12651,6956	7901,905	7901,950								
12649,2850	7903,411	7903,456								

The wavenumber positions come from a work done by Prof. Kevin K. Lehmann of the Department of Chemistry of the University of Virginia, Charlottesville, VA, and by Dr. Stephen L. Coy of the Department of Chemistry of the M.I.T., Cambridge, MA, who kindly gave me their results.

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12647,1315	7904,757	7904,801									
12638,7972	7909,969	7910,014									
12637,0986	7911,033	7911,077									
12636,0122	7911,713	7911,757									
12632,9194	7913,650	7913,694	$45 \pm 1$	$8.1 \pm 0.2$	$8.9 \pm 0.6$	$3.3 \pm 0.5$	$2.0 \pm 0.1$	$-0.3 \pm 0.2$	$-0.5 \pm 0.2$	$0.0 \pm 0.1$	
12627,6046	7916,980	7917,025	$22.8 \pm 0.4$	$7.4 \pm 0.1$	$8.5 \pm 0.1$	$3.6 \pm 0.2$	$0.7 \pm 0.2$	$-0.5 \pm 0.2$	$-0.6 \pm 0.1$	$0.3 \pm 0.1$	
12624,41	7918,984	7919,028									
12624,2883	7919,060	7919,105									
12624,2110	7919,109	7919,153									
12624,18	7919,128	7919,173									
12624,1189	7919,167	7919,211									
12619,6438	7921,975	7922,020	$28.7 \pm 0.4$	$7.6 \pm 0.2$	$8.8 \pm 0.2$	$3.6 \pm 0.5$	$-4.0 \pm 0.2$	$-1.0 \pm 0.2$	$-0.9 \pm 0.4$	$-0.4 \pm 0.1$	
12610,5109	7927,712	7927,757									
12609,1505	7928,567	7928,612									
12607,7925	7929,421	7929,466									
12605,8846	7930,622	7930,666									

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