

List of the observed wavenumber of absorption bands of N₂.

B: Wavelength region of 83.933nm - 87.136nm

Wavenumber	$b'(24) - X(0)$	$b'(23) - X(0)$
119143.23	R(18)	
119139.01	P(16)	
119107.25		
119104.45	P(17)	
119103.92		
119069.73	R(20)	
119068.22		
119067.84	P(18)	
119053.54		
119029.41	P(19)	
119015.25		
119002.52		
118989.69	P(20)	
118988.91		
118976.89		
118969.46		R(1)R(0)
118968.32		R(2)
118964.54		R(3)
118963.58		P(1)
118959.19		R(4)
118957.88		P(2)
118952.09		R(5)
118949.98		P(3)
118943.06		R(6)
118940.34		P(4)
118937.68		
118932.39		R(7)
118928.89		P(5)
118924.45		
118920.12		R(8)
118915.52		P(6)
118911.80		
118907.90		R(9)
118900.36		P(7)
118894.31		
118888.19		R(10)
118883.55		P(8)
118878.67		
118873.43		R(11)
118868.79		
118864.85		P(9)
118860.14		
118857.56		
118855.76		

Wavenumber	$b'(23) - X(0)$	$c'_4(7) - X(0)$
118849.79	R(12)	
118844.67	P(10)	
118840.61		
118835.49		
118832.16	R(13)	
118830.63		
118826.16		
118824.50	P(11)	
118820.42		
118818.24		
118813.92	R(14)	
118811.08		
118809.23		
118802.53		
118797.03	P(12)	
118790.64		
118787.68		
118783.79		
118777.30		R(7)-R(4)
118776.23		R(3)
118774.24	P(13)	R(2)
118771.70		R(1)
118770.83		R(0)
118766.54		
118765.41		
118762.78		P(1)
118761.82		
118759.72		
118758.33		P(2)
118757.37		
118755.57		
118751.80		P(3)
118746.38		P(4)
118742.40	P(14)	
118740.18		P(5)
118733.32		P(6)
118726.02		P(7)
118722.16		
118718.04		P(8)
118717.38	P(15)	
118715.02		
118709.82		P(9)
118707.60		
118700.39		
118694.92		
118690.97	P(16)	
118683.80		
118679.88		
118675.47		

Wavenumber	$b'(22) - X(0)$
118668.53	
118666.84	
118663.99	
118662.42	
118658.40	
118655.95	
118649.58	
118648.19	
118644.72	
118640.82	
118631.66	
118626.04	
118625.54	
118622.46	
118615.84	
118613.09	
118608.77	
118603.63	
118599.22	
118598.62	
118593.87	
118583.85	
118582.98	
118578.05	
118575.09	
118574.39	
118569.17	
118566.29	
118563.85	
118553.57	
118552.18	
118549.31	
118543.12	
118531.91	
118515.10	
118507.57	
118502.46	
118497.84	
118486.33	R(2)-R(0)
118483.02	R(3)
118478.07	R(4)P(1)
118475.11	P(2)
118471.54	R(5)
118467.71	P(3)
118463.41	R(6)
118458.32	P(4)
118453.41	R(7)
118447.28	P(5)
118441.63	R(8)

Wavenumber	$b'(22) - X(0)$	$c'_5(1) - X(0)$
118434.51	P(6)	
118428.29	R(9)	
118419.91	P(7)	
118413.22	R(10)	
118403.66	P(8)	
118396.67	R(11)	
118385.64	P(9)	
118378.57	R(12)	
118366.06	P(10)	
118359.08	R(13)	
118352.94		
118344.76	P(11)	
118341.83		
118338.08	R(14)	
118334.80		
118327.17		
118321.86	P(12)	
118315.76	R(15)	
118309.90		
118297.32	P(13)	
118292.09	R(16)	
118283.19		
118271.37	P(14)	
118267.37	R(17)	
118243.79	P(15)	
118241.72	R(18)	
118214.83	P(16)R(19)	
118186.88	R(20)	
118184.71	P(17)	
118153.05	P(18)	
118120.41	P(19)	
118086.75	P(20)	
118074.18		R(2)R(1)
118072.72		R(3)R(0)
118069.73		R(4)
118065.26		R(5)
118061.71		P(2)
118059.37		R(6)
118054.80		P(3)
118051.95		R(7)
118046.59		P(4)
118043.23		R(8)
118036.93		P(5)
118033.22		R(9)
118026.00		P(6)
118015.86		R(10)
118013.54		P(7)
117999.60		P(8)

Wavenumber	$c'_5(1) - X(0)$	$c_4(1) - X(0)$
117994.81	R(12)	
117984.11	P(9)	
117979.62	R(13)	
117967.55	P(10)	
117962.91	R(14)	
117945.03	R(15)	
117926.16	R(16)	
117906.35	R(17)P(13)	
117887.31	P(14)	
117885.90	R(18)	
117865.44	R(19)	
117864.68	P(15)	
117847.80		
117846.33	R(20)	
117839.82	P(16)	
117815.53	R(21)	
117814.02	P(17)	
117787.16	P(18)	
117780.63		R(12)
117778.65		R(10)
117778.05		R(9)
117775.56		R(8)
117773.58		R(7)
117770.92		R(6)
117768.04		R(5)
117764.91		R(4)
117761.64		R(3)
117759.14	P(19)	
117758.33		R(2)
117754.60		R(1)
117750.82		R(0)
117745.88		Q(3)-Q(1)
117745.45		Q(4)
117743.34		Q(6)
117742.05		Q(7)
117740.86		Q(8)
117739.27		Q(9)P(2)
117737.73		Q(10)
117735.79		Q(11)
117734.61		P(3)
117733.86		Q(12)
117731.46		Q(13)
117730.25		P(4)
117729.65		Q(15)
117726.03		P(5)
117724.14		Q(16)
117721.16		P(6)Q(17)
117718.24		Q(18)
117716.24		P(7)

Wavenumber	$c_4(1) - X(0)$	$b'(21) - X(0)$
117711.06	P(8)	
117708.29	Q(20)	
117705.65	P(9)	
117702.89	Q(22)	
117699.91	P(10)	
117696.71		
117693.81	P(11)	
117687.30		
117683.76		R(2)-R(0)
117680.76		R(3)
117676.21		R(4)P(1)
117673.29		
117672.18		P(2)
117670.72		R(5)
117662.83		P(3)R(6)
117654.34		P(4)R(7)
117644.83		P(5)
117642.50		R(8)
117632.30		P(6)
117630.33		R(9)
117617.99		P(7)
117615.67		R(10)
117602.73		P(8)
117599.56		R(11)
117585.69		P(9)
117581.40		R(12)
117566.91		P(10)
117561.17		R(13)
117546.36		P(11)
117539.31		R(14)
117524.04		P(12)
117515.57		R(15)
117500.09		P(13)
117489.66		R(16)
117474.15		P(14)
117461.80		R(17)
117445.82		P(15)
117431.77		R(18)
117416.15		P(16)
117399.59		R(19)
117384.51		P(17)
117365.40		R(20)
117350.61		P(18)
117329.16		R(21)
117314.84		P(19)
117291.02		R(22)
117276.80		P(20)
117250.60		R(23)
117236.82		P(21)

Wavenumber	$b'(20) - X(0)$	
	$^{14}\text{N}_2$	$^{14}\text{N}^{15}\text{N}$
117206.60	R(1)R(0)	
117205.51	R(2)	
117202.12	R(3)	
117200.44	P(1)	
117196.97	R(4)	
117194.66	P(2)	
117190.03	R(5)	
117187.08	P(3)	
117181.25	R(6)	
117177.61	P(4)	
117170.46	R(7)	
117166.31	P(5)	
117157.37	R(8)	
117153.28	P(6)	
117142.05	R(9)	
117138.30	P(7)	
117125.44	R(10)	
117121.61	P(8)	
117107.14	R(11)	
117102.95	P(9)	
117086.96	R(12)	
117081.85	P(10)	
117064.83	R(13)	
117058.56	P(11)	
117040.81	R(14)	
117039.85		R(1)R(0)
117038.47		R(2)
117035.21		R(3)
117033.99	P(12) P(1)	
117030.27		R(4)
117028.09		P(2)
117023.36		R(5)
117020.55		P(3)
117015.25		R(6)
117014.91	R(15)	
117011.49		P(4)
117007.76	P(13)	
117004.67		R(7)
117000.75		P(5)
116992.40		R(8)
116987.93		P(6)
116987.01	R(16)	
116979.59	P(14)	
116982.34		R(9)
116973.55		P(7)
116962.19		
116957.50		P(8)

Wavenumber	$b'(20) - X(0)$ $^{14}\text{N}_2$	$c'_4(6) - X(0)$ $^{14}\text{N}^{15}\text{N}$
116957.24	R(17)	
116949.62	P(15)	
116945.16		
116939.44		P(9)
116925.53	R(18)	
116917.71	P(16)	
116919.45		P(10)
116904.52		
116901.38		
116899.26		
116897.33		
116892.16	R(19)	
116883.82	P(17)	
116874.99		
116874.06		
116871.44		
116857.63	R(20)	
116847.91	P(18)	
116840.78		
116839.15		
116837.62		
116831.65		
116823.31		R(8)
116822.01		R(9)R(7)R(6)
116820.93		R(10)R(5)
116820.15		R(11)R(4)
116818.07		R(12)R(3)
116815.88		R(13)R(2)
116813.17		R(14)R(1)
116811.97		
116810.18	P(19)	R(0)
116806.18		
116802.65		P(1)
116798.25		P(2)
116793.42		P(3)
116788.10		P(4)
116782.33		P(5)
116776.16		P(6)
116770.71	P(20)	
116769.49		P(7)
116762.29		P(8)
116754.44		P(9)
116747.69		P(10)
116738.62		P(11)
116736.45		
116729.26	P(21)	P(12)
116720.74		P(13)
116713.63		
116712.10		

Wavenumber	$c'_4(6) - X(0)$	$b'(19) - X(0)$
116710.73	P(14)	
116704.33		
116700.34	P(15)	
116689.74	P(16)	
116684.70		R(1)R(0)
116683.53		R(2)
116680.26		R(3)
116678.42		P(1)
116675.22		R(4)
116672.57		P(2)
116668.35		R(5)
116664.99		P(3)
116659.78		R(6)
116657.89		
116655.61		P(4)
116653.05		
116649.44		R(7)
116646.08		
116644.42		P(5)
116643.29		
116640.56		
116637.85		R(8)
116635.68		R(8) _{ext}
116631.42		P(6)
116626.31		
116623.18		R(9)
116621.44		
116617.94		
116616.65		P(7)
116613.55		
116611.72		
116608.74		
116607.53		R(10)
116602.13		
116600.14		P(8)
116591.37		R(11)
116589.24		R(11) _{ext}
116583.31		
116581.85		P(9)
116578.91		
116574.10		
116571.47		R(12)
116566.29		
116562.29		P(10)
116560.20		P(10) _{ext}
116556.79		
116550.78		R(13)
116546.63		

Wavenumber	$b'(19) - X(0)$ $^{14}\text{N}_2$	$X(0)$ $^{14}\text{N}^{15}\text{N}$
116542.39		
116539.69	P(11)	
116533.92		
116532.49		
116528.54	R(14)	
116524.78		
116522.06		
116516.11	P(12)	
116514.47		R(1)
116513.71		R(2)R(0)
116511.08		R(3)
116507.50		P(1)
116507.03		R(4)
116506.76		
116504.81	R(15)	
116502.15		P(2)
116501.56		R(5)
116498.78		
116495.12		P(3)
116494.26		R(6)
116492.09	P(13)	
116489.87	$P(13)_{ext}$	
116486.27		P(4)
116485.43		
116479.56	R(16)	
116476.47		P(5)
116474.17		
116470.48		
116464.14	P(14)	P(6)
116459.48		
116456.12		
116453.17	R(17)	
116451.48		P(7)
116448.73		
116447.55		
116444.70		
116436.49		P(8)
116435.60	P(15)	
116431.94		
116425.32	R(18)	
116420.03		
116417.17		
116415.58		
116405.39	P(16)	
116400.82		
116399.56		
116396.45	R(19)	

Wavenumber	$b'(19) - X(0)$	$b(24) - X(0)$
116388.15		
116381.61		
116380.27		
116373.72	P(17)	
116366.54	R(20)	
116359.98		
116353.28		
116346.57		
116340.61	P(18)	
116338.38		R(0)
116337.29		R(1)
116336.01	R(21)	
116334.55		Q(1)
116333.16		R(2)
116333.75		
116329.48		
116329.06		Q(2)
116326.80		R(3)P(2)
116321.35		Q(3)
116317.50		R(4)P(3)
116315.99		
116313.31		
116310.72		Q(4)
116306.23	P(19)	
116305.30		R(5)P(4)
116304.71	R(22)	
116297.49		Q(5)
116291.04		R(6)P(5)
116287.94		
116281.50		Q(6)
116273.41	R(23)	R(7)P(6)
116270.47	P(20)	
116266.60		
116262.92		Q(7)
116260.74		
116253.88		R(8)P(7)
116248.69		
116241.39	R(24)	Q(8)
116233.69	P(21)	
116231.33		P(8)
116217.66		

Wavenumber	$b'(18) - X(0)$	$b(23) - X(0)$
116210.07	R(2)R(1)	
116208.72	R(3)R(0)	
116205.61	R(4)	
116202.49	P(1)	
116201.35	R(5)	
116197.06	P(2)	
116195.86	R(6)	
116190.29	P(3)	
116189.14	R(7)	
116182.10	P(4)	
116181.30	R(8)	
116178.18		
116172.50	P(5)	
116172.26	R(9)	
116161.90	P(6)R(10)	
116157.58		
116150.43	R(11)	
116149.63	P(7)	
116147.64		
116138.33	R(12)	
116136.21	P(8)	
116130.35		
116125.37	R(13)	
116121.51	P(9)	
116118.33		
116114.16		
116111.22	R(14)	
116105.64	P(10)	
116095.72	R(15)	
116088.60	P(11)	
116078.53		
116077.95		
116070.50	P(12)	
116063.18		
116058.18		
116051.36	P(13)	
116048.93		
116045.09		
116039.51		
116030.99	P(14)	
116026.04		R(2)
116021.59		Q(2)
116019.67		R(3)
116014.01		Q(3)
116011.09		R(4)
116005.12		
116004.13		Q(4)
116000.01		R(5)
115998.34		P(4)

Wavenumber	$b^{(23)} - X(0)$	$c_5'(0) - X(0)$
115991.26	Q(5)	
115986.52	R(6)	
115983.77	P(5)	
115976.19	Q(6)	
115975.36		
115970.61	R(7)	
115967.53	P(6)	
115959.56		
115954.30		
115951.72	R(8)	
115948.47	P(7)	
115940.98		
115938.57	Q(8)	
115934.32		
115930.25	R(9)	
115929.67		
115926.75	P(8)	
115915.92	Q(9)	
115906.59	R(10)	
115902.80	P(9)	
115890.31	Q(10)	
115880.43	R(11)	
115876.38	P(10)	
115863.00	Q(11)	
115853.49		R(2)R(1)
115852.29		R(3)R(0)
115849.88		R(4)
115845.84		R(5)
115845.47		P(1)
115840.46		R(6)
115840.34		P(2)
115833.79		P(3)R(7)
115825.75		P(4)R(8)
115816.33		P(5)R(9)
115805.97		P(6)
115805.03		R(10)
115799.69		
115794.20		P(7)
115792.25		R(11)
115786.41		
115781.00		P(8)
115777.86		R(12)
115773.49		
115771.21		
115766.38		P(9)
115764.09		
115761.77		R(13)
115750.27		P(10)
115744.11		R(14)
115740.15		

Wavenumber	$c'_5(0) - X(0)$ $^{14}\text{N}_2$	$^{14}\text{N}^{15}\text{N}$	$b(22) - X(0)$
115736.46		R(2)R(1)	
115735.87		R(0)	
115734.74		R(3)	
115732.62	P(11)		
115731.47		R(4)	
115729.84		P(1)	
115726.63		R(5)	
115724.83	R(15)		
115724.34		P(2)	
115720.70		R(6)	
115717.68		P(3)	
115713.50	P(12)		
115713.09		R(7)	
115710.02			
115709.54		P(4)	
115704.21	R(16)	R(8)	
115700.14		P(5)	
115692.88	P(13)	R(9)	
115689.21		P(6)	
115683.20	R(17)		
115681.62		R(10)	
115676.73		P(7)	
115670.49	P(14)		
115668.77		P(8)	
115666.53			
115664.68			R(0)
115663.79			R(1)
115662.63	R(18)		
115661.03			R(2)Q(1)
115655.90			Q(2)
115655.21			R(3)
115652.82			P(2)
115648.79			Q(3)
115647.25		P(9)	R(4)P(9)
115646.58	P(15)		
115644.96			
115644.02			P(3)
115641.61			
115639.37			Q(4)
115636.97			R(5)
115632.83			P(4)
115630.85		P(10)	
115627.21			Q(5)
115626.54			
115624.39			R(6)
115620.84	P(16)		
115619.35			P(5)
115616.37			

Wavenumber	$c'_5(0) - X(0)$	$b(22) - X(0)$	$c_4(0) - X(0)$
115612.93		Q(6)	
115609.43			
115606.02			
115603.54		P(6)	
115601.06			R(13)
115600.38			R(12)
115599.33			R(11)
115597.57			R(10)
115596.04			R(9)
115594.14	P(17)		R(8)
115592.53			
115591.05			
115590.67			R(7)
115588.75			R(6)
115586.03			R(5)
115583.10			R(4)
115581.77			
115579.98			R(3)
115578.82			
115576.69			R(2)
115573.15			R(1)
115571.42			
115569.51			R(0)
115567.75			
115565.11	P(18)		Q(3)-Q(1)
115564.66			Q(4)
115563.89			Q(5)
115563.07			Q(6)
115562.10			Q(7)
115560.69			Q(8)Q(9)
115559.33			
115558.94			Q(10)
115557.38			Q(11)P(2)
115555.58			Q(12)
115553.95			Q(13)
115553.34			P(3)
115552.29			Q(14)
115550.32			Q(15)
115548.60			Q(16)P(4)
115546.05			Q(17)
115543.96			P(5)
115543.73			Q(18)
115541.12		P(9)	
115539.15			P(6)
115538.98			
115536.21		P(19)	
115534.27			P(7)
115532.85			
115531.56			

Wavenumber	$c'_5(0) - X(0)$	$b(22) - X(0)$	$c_4(0) - X(0)$
115530.25			
115529.27			P(8)
115529.07			
115526.81			
115524.75			
115523.66			P(9)
115520.57			
115518.75			P(10)
115515.19		P(10)	
115512.28			P(11)
115507.63	P(20)		
115506.08			P(12)
115500.59			
115499.71			P(13)
115497.40			
115496.55			
115492.85			P(14)
115490.38			
115487.88			
115485.65			P(15)
115483.55			
115482.11			
115477.99			P(16)
115476.68			
115469.59			P(17)
115468.36			
115467.64			
115464.79			
115461.84			
115460.93			
115460.39			P(18)
115457.58			
115449.54			
115446.35			
115445.69			
115435.77			
115433.61			
115425.73			
115425.34			
115421.90			
115416.22			
115411.73			
115410.80			
115404.02			
115401.71			
115399.90			
115389.89			
115388.75			
115384.16			

Wavenumber	$b'(17) - X(0)$ $^{14}\text{N}_2$ $^{14}\text{N}^{15}\text{N}$
115371.58	R(1)R(0)
115370.78	R(2)
115367.39	R(3)
115365.23	P(1)
115362.48	R(4)
115359.47	P(2)
115355.82	R(5)
115351.96	P(3)
115347.37	R(6)
115342.65	P(4)
115340.07	
115337.08	R(7)
115331.60	P(5)
115325.02	R(8)
115318.74	P(6)
115314.18	
115311.18	R(9)
115304.11	P(7)
115295.59	R(10)
115287.68	P(8)
115279.97	
115278.23	R(11)
115269.50	P(9)
115259.39	R(12)
115256.80	
115256.03	
115252.92	
115251.17	
115249.46	P(10)
115247.43	
115245.68	
115243.71	
115239.46	R(13)
115236.29	
115235.01	
115232.78	
115231.35	
115227.67	P(11)
115225.58	
115223.64	
115221.29	
115220.28	R(14)
115219.04	R(0)R(1)
115217.93	R(2)
115214.46	R(3)
115213.07	P(1)
115211.01	
115209.51	R(3)
115207.35	P(2)

Wavenumber	$b'(17) - X(0)$ $^{14}\text{N}_2$	$^{14}\text{N}^{15}\text{N}$	$o_3(5) - X(0)$
115206.71			
115204.11	P(12)		
115202.94		R(5)	
115200.50		P(3)	
115198.50			
115194.97			
115193.91		R(6)	
115191.70			
115190.69		P(4)	
115184.08		R(7)	
115181.09			
115180.02			R(4)-R(2)
115179.59		P(5)	R(1)
115179.07	P(13)R(15)		
115177.29			R(5)R(0)
115173.27			Q(1)R(6)
115172.15			
115171.80			Q(2)
115168.80			Q(3)
115167.06		P(6)	
115165.12			Q(4)P(2)
115164.24			
115159.78			Q(5)P(3)
115157.97			
115155.49	R(16)	R(9)	
115153.17		P(7)	
115152.00	P(14)		P(4)
115151.42			Q(6)
115147.76			
115145.24			P(5)
115144.18			Q(7)
115142.51		R(10)	
115139.28			
115138.24			
115136.60		P(8)	P(6)
115132.49			
115130.48			
115129.06			
115127.71	R(17)		
115125.55			P(7)
115124.19	P(15)		
115121.95			
115118.53		P(9)	
115113.24			P(8)
115111.55			
115107.05			
115106.14			

Wavenumber	$b'(17) - X(0)$
115100.95	
115098.58	
115097.22	P(16)R(18)
115087.80	
115085.96	
115077.44	
115075.50	
115071.75	
115068.23	
115064.97	R(19)
115059.47	
115056.31	
115054.00	
115050.62	
115049.21	
115048.05	P(17)
115042.50	
115038.41	
115031.91	
115030.64	R(20)
115028.98	
115026.53	
115021.70	
115016.35	P(18)
115012.61	
115004.49	
115002.43	
114994.62	R(21)
114990.18	
114980.71	P(19)
114977.30	
114974.52	
114957.04	R(22)
114947.31	
114945.75	
114942.53	P(20)
114920.00	
114918.48	R(23)
114915.26	
114902.18	P(21)
114900.22	
114881.02	
114879.72	R(24)

Wavenumber	$b'(17) - X(0)$	$b'(21) - X(1)$
114876.55		R(0)R(1)
114875.65		R(2)
114872.22		R(3)
114870.07		P(1)
114869.42		
114867.33		R(4)
114864.71		P(2)
114860.47		R(5)
114859.99	P(22)	
114857.17		P(3)
114851.82		R(6)
114850.80		
114847.90		P(4)
114844.91		
114843.24		
114842.42		
114841.66		
114840.40		
114839.42		
114838.14		
114835.78		
114832.98		
114829.74		
114825.92		
114822.55		
114821.54		
114818.29		
114816.45		
114814.55		
114810.97		
114810.15		
114805.70		
114802.88		
114799.51		
114795.62		
114794.02		
114791.33		
114787.31		
114786.85		
114783.81		
114781.52		
114781.05		
114776.87		
114775.78		
114773.76		
114770.37		
114769.79		
114766.99		
114766.20		
114762.93		