

List of the observed wavenumber of absorption bands of $^{15}\text{N}_2$.

A: Wavelength region of 80.338nm - 85.577nm

Wavenumber	$c'_9(0) - X(0)$	$c_8(0) - X(0)$	7f
123713.7	R(9)		
123708.3	R(8)		
123702.9	R(7)		
123697.4	R(6)		
123692.0	R(5)		
123686.6	R(4)		
123681.4	R(3)		
123676.1	R(2)		
123671.5	R(1)		
123666.8	R(0)		
123662.8			
123659.1	P(1)		
123655.5	P(2)		
123652.9	P(3)		
123650.2	P(4)		
123647.9	P(5)		
123645.9	P(6)		
123643.5	P(7)		
123639.7	P(9)		
123635.6	P(11)		
123628.2		R-head	
123624.3		R(1)	
123617.6		Q-head	
123615.7			
123610.2		P(1)	
123605.3		P(3)	
123599.7		P(4)	
123593.7		P(5)	
123587.2		P(6)	
123580.2		P(7)	
123572.8		P(8)	
123565.7		P(9)	
123546.3			*
123519.4			*
123506.1			*
123504.8			*
123500.8			*
123496.6			*
123494.9			*
123487.6			*
123483.1			*
123478.4			*
123476.1			*
123471.2			*

Wavenumber	7f
123467.3	*
123465.3	*
123462.9	*
123458.3	*
123456.0	*
123451.8	*
123448.9	*
123444.8	*
123441.2	*
123439.0	*
123437.4	*
123431.5	*
123430.6	*
123423.5	*
123421.3	*
123419.0	*
123415.4	*
123406.8	*
123405.3	*
123402.2	*
123399.2	*
123396.8	*
123393.9	*
123390.9	*
123388.4	*
123387.0	*
123383.3	*
123375.8	*
123373.0	*
123371.1	*
123368.4	*
123365.8	*
123362.4	*
123360.5	*
123358.1	*
123354.4	*
123351.7	*
123347.1	*
123341.6	*
123337.2	*
123334.9	*
123332.3	*
123329.2	*
123326.0	*
123324.4	*
123323.1	*
123317.4	*
123311.2	*
123309.9	*

Wavenumber	7f
123301.9	*
123298.9	*
123296.5	*
123293.8	*
123286.5	*
123279.1	*
123271.3	*
123264.2	*
123254.1	*
123192.5	
123190.1	
123187.2	
123185.6	
123181.6	
123178.9	
123173.8	
123170.4	
123164.0	
123159.4	
123152.1	
123146.8	
123138.1	
123132.1	
123121.8	
123114.8	
123112.5	
123109.7	
123104.3	
123099.0	
123095.1	
123093.1	
123087.6	
123083.8	
123080.5	
123076.4	
123074.7	
123071.7	
123069.9	
123065.1	
123061.5	
123059.3	
123055.4	
123050.5	
123046.0	
123041.8	
123038.8	
123036.9	
123031.7	

Wavenumber

123028.0
123023.4
123018.6
123014.7
123010.1
123007.0
123004.4
123001.0
122996.7
122995.1
122992.3
122990.5
122988.9
122986.3
122986.0
122985.3
122979.8
122978.0
122974.1
122971.8
122967.3
122964.6
122961.1
122957.9
122954.5
122952.5
122950.0
122947.9
122943.6
122938.9
122934.1
122930.1
122924.7
122919.1
122909.5
122905.4
122901.9
122898.5
122893.7
122889.1
122881.8
122875.9
122868.8
122861.6
122853.2
122852.2
122847.8
122846.3
122844.1

Wavenumber

122839.2
122835.5
122832.7
122829.5
122810.1
122806.3
122803.7
122801.3
122798.1
122793.8
122792.2
122788.8
122785.4
122781.6
122780.0
122777.1
122772.4
122765.8
122762.8
122759.2
122757.5
122753.2
122750.1
122747.7
122743.1
122740.8
122738.9
122730.1
122727.5
122719.8
122715.7
122705.8
122702.5
122696.7
122693.4
122690.2
122687.5
122678.5
122676.2
122663.1
122659.1
122652.7
122649.0
122647.1
122641.9
122639.3
122635.5
122629.7
122626.3

Wavenumber	$3d\sigma(0)$
122622.6	
122616.9	
122610.2	
122608.4	
122602.5	
122599.1	
122596.8	
122585.9	
122583.2	
122579.8	
122575.9	
122569.6	
122567.6	
122563.0	
122561.2	
122554.2	
122552.2	
122549.7	
122546.5	
122544.1	
122538.8	
122538.2	
122536.6	
122530.9	
122528.5	
122523.2	
122521.7	
122513.6	
122505.5	
122498.6	
122496.8	
122487.7	
122482.1	
122465.7	
122173.7	R(4)-R(8)
122171.9	R(3)R(9)
122169.7	R(2)
122167.5	R(1)
122164.7	R(0)
122160.6	Q(1)Q(2)
122158.5	Q(3)
122156.7	Q(4)
122154.0	P(2)Q(5)
122151.1	Q(6)
122148.1	P(3)Q(7)
122147.6	
122143.7	P(4)Q(8)
122142.7	
122138.6	P(5)Q(9)

Wavenumber	$3d\sigma(0)$	$c'_6(1) - X(0)$
122134.2	Q(10)	
122132.0	P(6)	
122129.0	Q(11)	
122125.3	P(7)	
122118.2	P(8)	
122117.0		
122110.7	P(9)	
122102.7	P(10)	
122094.3	P(11)	
122085.2	P(12)	
122075.8	P(13)	
122066.0		
122061.8		R(8)
122057.4		R(7)
122055.3		R(6)
122052.0		R(5)
122048.9		R(4)
122045.8		R(3)
122042.4		R(2)
122039.1		R(1)
122035.7		R(0)
122028.4		P(1)
122024.4		P(2)
122020.6		P(3)
122016.6		P(4)
122012.3		P(5)
122009.1		
122008.3		P(6)
122005.6		
122003.6		P(7)
121999.4		P(8)
121994.3		P(9)
121991.1		P(10)
121984.4		
121977.0		
121974.3		
121972.4		
121965.9		
121962.6		
121957.2		
121950.9		
121946.3		
121944.1		
121938.1		
121936.4		
121931.6		
121927.6		
121920.3		
121917.0		
121912.6		

Wavenumber	$c_7'(0) - X(0)$	$c_6(0) - X(0)$
121907.7	R(9)	
121903.6	R(7)	
121898.6	R(6)	
121894.2	R(5)	
121889.4	R(4)	
121884.9	R(3)	
121880.3	R(2)	
121876.1	R(1)	
121871.6	R(0)	
121864.2	P(1)	
121860.3	P(2)	
121857.5	P(3)	
121854.2	P(4)	
121851.5	P(5)	
121848.4	P(6)	
121845.6	P(7)	
121842.5	P(8)	
121840.2	P(9)	
121837.4		
121834.9	P(10)	
121829.6	P(11)	
121823.9	P(12)	
121818.1	P(13)	
121814.1		
121811.7		
121807.0	P(15)	
121799.9		
121798.8		
121790.0		R(7)-R(9)
121787.7		R(5)
121784.1		R(3)
121781.7		R(2)
121778.9		R(1)
121775.6		R(0)
121771.8		Q(1)Q(2)
121770.3		Q(3)
121769.0		Q(4)
121767.5		Q(5)
121764.9		P(2)
121760.4		P(3)
121755.4		P(4)
121750.5		P(5)
121744.9		P(6)
121739.2		P(7)
121732.9		P(8)
121728.9		
121726.6		P(9)
121719.8		P(10)
121712.7		P(11)

Wavenumber	$b'(29) - X(0)$	5f
121705.5		
121698.1		
121637.9		
121633.1		
121621.0		
121451.4	R(1)R(0)	
121449.8	R(2)	
121446.1	R(3)	
121441.5	R(4)P(2)	
121434.0	R(5)	
121433.3	P(3)	
121425.1	R(6)	
121424.0	P(4)	
121414.3	R(7)	
121413.0	P(5)	
121402.1	R(8)	
121400.6	P(6)	
121386.9	R(9)	
121386.3	P(7)	
121371.4	R(10)	
121369.8	P(8)	
121352.6	R(11)	
121351.4	P(9)	
121342.1		
121336.6		
121331.4	P(10)	
121326.3		
121320.6		
121315.4		*
121309.6		*
121304.8		*
121303.4		*
121299.4		*
121297.3		*
121293.7		*
121291.0		*
121287.9		*
121284.7		*
121281.9		*
121278.1		*
121275.8		*
121271.0		*
121269.8		*
121266.5		*
121264.3		*
121257.0		*
121255.5		*
121252.2		*

Wavenumber	5f	$3d\sigma(0)$
121250.4	*	
121246.5	*	
121244.3	*	
121241.8	*	
121239.6	*	
121236.4	*	
121233.9	*	
121227.9	*	
121222.2	*	
121220.4	*	
121216.4	*	
121212.5	*	
121210.7	*	
121208.6	*	
121205.1	*	
121202.9	*	
121199.9	*	
121197.3	*	
121194.7	*	
121189.6	*	
121184.8	*	
121181.5	*	
121180.3	*	
121175.5	*	
121173.6	*	
121168.0	*	
121165.6	*	
121157.1	*	
121154.8	*	
121151.7	*	
121142.0	*	
121130.2		R(2)-R(6)
121127.6		R(1)R(7)
121125.1		R(0)
121121.3		Q(1)
121119.3		Q(2)
121117.3		Q(3)
121114.6		P(2)Q(4)
121111.8		Q(5)
121111.0		
121108.6		P(3)Q(6)
121104.2		Q(7)
121103.7		P(4)
121099.9		Q(8)
121096.9		P(5)
121094.6		
121090.0		P(6)
121087.7		
121081.9		P(7)

Wavenumber	$3d\sigma(0) - X(0)$	$b'(28) - X(0)$
121079.1		
121073.5	P(8)	
121071.0		
121064.1	P(9)	
121062.8		R(1)R(0)
121061.2		R(2)
121057.1		R(3)
121054.4	P(10)	
121051.5		R(4)P(2)
121044.0		R(5)P(3)
121034.8		P(4)
121032.9		R(6)
121023.5		P(5)R(7)
121021.1		
121010.4		P(6)
120999.8		
120995.6		P(7)
120978.5		
120977.4		P(8)
120967.0		
120960.2		P(9)
120956.7		
120946.4		
120945.0		
120942.4		
120939.8		
120936.8		
120934.7		
120934.0		
120929.7		
120927.9		
120925.3		
120923.0		
120920.7		
120917.8		
120916.7		
120914.1		
120912.3		
120907.8		
120905.0		
120899.4		
120896.8		
120893.6		

Wavenumber

120890.0
120888.5
120885.2
120880.8
120872.9
120870.4
120868.1
120864.5
120863.6
120859.5
120856.5
120854.9
120852.5
120848.7
120844.4
120842.9
120838.3
120835.5
120834.5
120831.0
120829.1
120822.1
120818.7
120814.8
120812.4
120809.5
120807.8
120805.7
120803.5
120798.8
120797.4
120791.3
120790.5
120784.2
120778.8
120776.4
120772.1
120768.6
120764.8
120760.4
120757.0
120752.0
120748.6
120743.7
120735.1
120728.0
120695.0
120689.1
120665.9

Wavenumber	$b'(27) - X(0)$	$b'(26) - X(0)$
		$^{14}\text{N}^{15}\text{N}$ $^{15}\text{N}_2$
120653.1	R(1)R(0)	
120651.9	R(2)	
120648.0	R(3)	
120647.6	P(1)	
120642.6	R(4)P(2)	
120635.9	R(5)P(3)	
120629.9		
120627.1	R(6)	
120625.7	P(4)	
120616.4	R(7)	
120614.7	P(5)	
120612.0		
120604.3	R(8)	
120602.1	P(6)	
120590.4	R(9)	
120587.6	P(7)	
120574.8	R(10)	
120571.3	P(8)	
120557.8	R(11)	
120553.5	P(9)	
120538.7	R(12)	
120533.7	P(10)	
120518.6	R(13)	
120512.5	P(11)	
120495.0		R(4)-R(1)
120492.6		R(5)R(0)
120489.3	P(12)	R(6)
120486.0		R(7)
120481.5		P(2)
120475.7		P(3)
120468.5		P(4)
120465.0	P(13)	
120460.6		P(5)
120451.6		P(6)
120441.9		P(7)
120431.5		P(8)
120420.4		P(9)
120361.4		
120360.1		
120356.7		
120351.1		
120345.4		
120302.1		R(2)R(1)
120301.6		R(3)R(0)
120298.5		R(4)
120295.0		R(5)P(1)
120290.0		R(6)P(2)
120284.0		R(7)P(3)

Wavenumber	$b'(26) - X(0)$	$c'_5(2) - X(0)$	$c'_6(0) - X(0)$
120276.3	R(8)P(4)		
120267.6	R(9)P(5)		
120260.2	R(10)		
120257.5	P(6)		
120250.7	R(11)		
120246.2	P(7)		
120240.9	R(12)		
120234.2	P(8)		
120226.1	R(13)		
120221.0	P(9)		
120213.6			
120206.7	P(10)		
120193.3			
120191.4	P(11)		
120119.9		R(3)R(2)R(1)	
120118.4		R(4)R(0)	
120114.9		R(5)	
120111.4		R(6)	
120106.9		P(2)	
120105.6		R(7)	
120101.4		P(3)	
120098.9		R(8)	
120094.4		P(4)	
120091.1		R(9)	
120086.3		P(5)	
120076.9		P(6)	
120071.9		R(11)	
120066.7		P(7)	
120055.2		P(8)	
120042.4		P(9)	
119981.2			R(11)
119978.1			R(10)
119975.0			R(9)
119971.7			R(8)
119968.6			R(7)
119965.1			R(6)
119961.7			R(5)
119958.3			R(4)
119954.8			R(3)
119951.2			R(2)
119947.7			R(1)
119944.0			R(0)
119942.0			
119936.7			P(1)
119932.8			P(2)
119929.1			P(3)
119925.2			P(4)
119921.4			P(5)
119917.3			P(6)

Wavenumber	$c'_6(0) - X(0)$	$c_5(0) - X(0)$
119913.4	P(7)	
119909.3	P(8)	
119905.3	P(9)	
119901.9	P(10)	
119896.8	P(11)	
119892.7	P(12)	
119888.6	P(13)	
119886.5		
119884.2		
119879.5		
119874.1		
119867.5		
119859.5		
119840.9		
119831.1		
119829.1		
119825.2		
119819.4		
119814.3		
119808.9		
119769.0		
119765.6		R(9)
119763.1		R(7)
119761.1		R(6)
119759.2		R(5)
119756.8		R(4)
119754.4		R(3)
119751.5		R(2)
119748.6		R(1)
119745.1		R(0)
119741.7		Q(?)
119741.1		Q(?)
119740.4		Q(?)
119738.7		Q(?)
119736.7		Q(?)
119734.3		P(2)
119733.6		
119730.0		P(3)
119725.7		P(4)
119723.2		
119720.9		P(5)
119716.1		P(6)
119710.9		P(7)
119705.5		P(8)
119699.9		P(9)
119694.2		P(10)
119687.7		P(11)

Wavenumber	$b'(25) - X(0)$	$b'(24) - X(0)$
119494.9	R(2)-R(0)	
119491.1	R(3)	
119489.3	P(1)	
119486.6	R(4)	
119483.2	P(2)	
119480.4	R(5)	
119476.6	P(3)	
119472.5	R(6)	
119467.9	P(4)	
119462.8	R(7)	
119457.7	P(5)	
119451.7	R(8)	
119445.6	P(6)	
119438.3	R(9)	
119432.0	P(7)	
119423.9	R(10)	
119416.8	P(8)	
119407.2	R(11)	
119399.8	P(9)	
119381.2	P(10)	
119360.8	P(11)	
119252.4		
119250.9		
119247.1		
119241.8		
119240.9		
119235.0		
119233.1		
119226.1		
119223.9		
119215.4		
119212.8		
119201.9		
119199.7		
119188.5		
119185.3		
119066.1		R(2)-R(0)
119061.4		R(3)P(1)
119056.5		R(4)
119055.6		P(2)
119049.5		R(5)
119048.4		P(3)
119041.1		R(6)
119039.0		P(4)
119030.9		R(7)
119028.2		P(5)
119018.9		R(8)
119015.7		P(6)
119005.2		R(9)
119001.6		P(7)

Wavenumber	$b'(24) - X(0)$
118989.6	R(10)
118985.6	P(8)
118972.9	R(11)
118968.0	P(9)
118927.7	P(11)
118832.7	
118825.3	
118816.9	
118811.2	
118807.5	
118804.2	
118802.3	
118797.3	
118795.4	
118792.2	
118789.7	
118786.5	
118785.7	
118784.2	
118783.2	
118778.1	
118775.7	
118771.9	
118768.9	
118766.1	
118764.6	
118760.1	
118758.6	
118757.6	
118754.1	
118750.8	
118747.0	
118740.1	
118736.8	
118732.2	
118726.4	
118724.9	
118719.7	
118718.3	
118715.3	
118712.7	
118705.5	
118701.1	
118698.2	
118690.6	
118686.7	
118682.9	
118675.0	
118672.0	

Wavenumber	$^1\Sigma - X(0)$	$^1\Sigma - X(0)$	$^1\Sigma - X(0)$
118667.0			
118658.6			
118657.6			
118651.1			
118650.1			
118642.3			
118624.7	R(2)R(1)R(0)		
118621.7	R(3)		
118618.6	R(4)P(1)		
118611.9	R(5)P(2)		
118606.5	P(3)		
118605.1	R(6)		
118597.7	P(4)		
118596.6	R(7)		
118588.1	R(8)P(5)		
118580.6			
118577.0	P(6)		
118575.9	R(9)		
118569.4			
118563.6	P(7)		
118549.6	P(8)		
118548.9			
118547.9			
118541.3			
118533.3	P(9)		
118516.5	P(10)		
118496.9	P(11)		
118358.3		R(1)-R(5)	
118357.6		R(0)	
118355.4			
118354.5			
118351.6			
118348.6		P(1)	
118343.9		P(2)	
118338.6		P(3)	
118334.0			
118332.3		P(4)	
118325.3		P(5)	
118317.3		P(6)	
118308.9		P(7)	
118298.8			
118130.0			R(2)R(1)
118128.7			R(3)R(0)
118126.0			R(4)
118125.6			
118122.9			P(1)
118122.1			R(5)
118119.7			
118117.6			P(2)

Wavenumber	$^1\Sigma - X(0)$	$^1\Sigma - X(0)$	$b'(21) - X(0)$
118117.0	R(6)		
118111.6	P(3)		
118110.4	R(7)		
118104.1	P(4)		
118102.8			
118095.1	P(5)		
118093.6			
118085.0	P(6)		
118073.6	P(7)		
118060.7	P(8)		
118047.2	P(9)		
117696.0		R(7)	
117693.2		R(5)	
117691.1		R(4)	
117688.7		R(3)	
117685.8		R(2)	
117682.9		R(1)	
117679.8		R(0)	
117675.5			
117674.4			
117672.0			
117669.0		P(2)	
117664.4		P(3)	
117660.0		P(4)	
117655.2		P(5)	
117650.5		P(6)	
117645.0		P(7)	
117362.0			
117361.3			R(2)R(1)R(0)
117357.2			R(3)
117355.4			P(1)
117352.6			R(4)
117349.8			P(2)
117346.3			R(5)
117342.8			P(3)
117338.3			R(6)
117334.2			P(4)
117328.6			R(7)
117323.8			P(5)
117317.2			R(8)
117311.8			P(6)
117304.1			R(9)
117298.0			P(7)
117289.1			R(10)
117282.6			P(8)
117272.8			R(11)
117272.1			
117270.0			
117267.0			

Wavenumber	$b'(21) - X(0)$	$b'(20) - X(0)$
		$^{14}\text{N}^{15}\text{N} \quad ^{15}\text{N}_2$
117265.5	P(9)	
117256.8		
117255.7		
117251.7		
117246.7	P(10)	
117244.7		
117226.1	P(11)	
117039.9		R(1)R(0)
117038.8		R(2)
117035.3		R(3)
117033.8		P(1)
117030.3		R(4)
117028.2		P(2)
117023.5		R(5)
117020.7		P(3)
117015.4		R(6)
117012.9		
117011.6		P(4)
117004.8		R(7)
117000.7		P(5)
116992.4		R(8)
116988.0		P(6)
116979.6		
116978.1		
116975.4		
116973.5		P(7)
116962.7		
116957.7		P(8)
116954.9		
116950.9		
116944.9		
116943.9		
116939.5		P(9)
116925.4		
116919.5		P(10)
116899.1		
116897.5		
116894.8		
116887.9		
116881.7		
116871.8		R(1)R(0)
116871.0		R(2)
116867.6		R(3)
116865.8		P(1)
116862.9		R(4)
116860.3		P(2)
116856.5		R(5)
116853.3		P(3)