

Molecular spectroscopic constants ( $\text{cm}^{-1}$ ) of the B  $^3\Sigma_u^-$  state  $v = 2 - 16$  of  $^{16}\text{O}^{18}\text{O}$ .

$v$	$T(v)^a$	B	$10^5\text{D}$	$\lambda$	$-\gamma$	$-10^4\gamma_D$
2	50685.17(6)	0.7434(7)	0.45	1.70	0.021	
3	51310.44(6)	0.7294(4)	0.50	1.70	0.020	
4	51913.17(6)	0.7134(4)	0.52	1.74	0.020	
5	52492.03(6)	0.6990(2)	0.54	1.76	0.022	
6	53042.52(6)	0.6813(4)	0.42(6)	1.79	0.022	
7	53566.59(6)	0.6654(2)	0.59	1.83	0.022	
8	54059.59(7)	0.6448(7)	0.55	1.87	0.023	
9	54521.47(2)	0.6227(2)	0.74(4)	1.80(2)	0.018(1)	
10	54948.44(4)	0.5994(4)	0.83(6)	1.97(5)	0.021	
11	55337.84(4)	0.5730(5)	0.87(14)	2.13(3)	0.022	
12	55688.13(1)	0.5424(1)	1.07(2)	2.27(1)	0.049(1)	0.21(3)
13	55996.59(1)	0.5095(1)	1.41(3)	2.49(1)	0.067(1)	0.27(4)
14	56261.61(2)	0.4732(3)	1.71(6)	2.74(2)	0.087(3)	0.50(9)
15	56483.58(2)	0.4339(3)	2.15(8)	3.05(2)	0.133(3)	0.50
16	56664.54(11)	0.3870(13)	2.48	4.79(11)	0.277	

References:

*The Schumann-Runge Absorption Bands of  $^{16}\text{O}^{18}\text{O}$  in the Wavelength Region 175-205 nm and Spectroscopic Constants of Isotopic Oxygen Molecules*, A.S.-C. Cheung, K. Yoshino, D.E. Freeman, R.S. Friedman, A. Dalgarno and W.H. Parkinson, *J. Mol. Spectrosc.* **134**, 362-389 (1989).

*High Resolution Absorption Cross Sections and Band Oscillator Strengths of the Schumann-Runge Absorption Bands of Isotopic Oxygen,  $^{16}\text{O}^{18}\text{O}$ , at 79K*, K. Yoshino, D.E. Freeman, J.R. Esmond, R.S. Friedman and W.H. Parkinson, *Planet. Space Sci.* **37**, 419-426 (1989).