

Molecular spectroscopic constants (cm^{-1}) of the $B^3\Sigma_u^-$ state $v = 0 - 17$ of O_2 . Absolute values of $T(v)$ are subject to the calibration uncertainty of 0.03 cm^{-1} .

v	$T(v)^a$	B	10^5D	λ	$-\gamma$	$10^3\lambda_D$	$-10^4\gamma_D$
0	49356.81(3)	0.8132(3)	0.45(6)	1.69(3)	0.028(1)		
1	50044.37(3)	0.7993(3)	0.42(5)	1.70(3)	0.026(1)		
2	50709.53(2)	0.7860(2)	0.58(3)	1.69(2)	0.029(1)		
3	51350.78(2)	0.7705(7)	0.52(9)	1.70	0.026		
4	51968.26(11)	0.7527(9)	0.14(13)	1.72	0.024		
5	52559.75(5)	0.7377(5)	0.58(7)	1.75	0.022		
6	53121.44(7)	0.7187(3)	0.50(13)	1.79	0.021		
7	53654.72(4)	0.7010(3)	0.86(4)	1.82(5)	0.021(1)		
8	54154.92(9)	0.6770(6)	0.67(7)	1.91	0.023(5)		
9	54621.12(5)	0.6514(2)	0.63(3)	2.04(4)	0.021(3)		
10	55049.72(4)	0.6263(2)	0.99(2)	2.10(4)	0.041(2)		
11	55437.75(7)	0.5956(8)	0.94(15)	2.17(7)	0.038(4)		
12	55783.011(7)	0.56283(9)	1.42(2)	2.24(1)	0.0632(9)	0.24(5)	0.09(3)
13	56083.695(3)	0.52436(3)	1.635(7)	2.488(4)	0.0848(4)	0.02(2)	0.21(1)
14	56338.380(4)	0.48320(4)	2.041(8)	2.793(5)	0.1174(5)	0.24(3)	0.35(1)
15	56548.168(5)	0.43885(5)	2.42(1)	3.269(6)	0.1672(6)	0.40(3)	0.60(2)
16	56716.53(2)	0.3931(2)	2.98(3)	4.05(2)	0.242(2)	0.58(11)	0.80(6)
17	56848.56(2)	0.3463(2)	3.70(5)	5.14(2)	0.352(2)		

References:

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