

**The observed wavelength of the e(4)  $^3\Sigma^-$ -X(0)  $^1\Sigma^+$  band of CO and recommended line oscillator strengths ( $f$ ).**

$J''$	$^3R(J'')$			$^3Q(J'')$			$^3P(J'')$		
	WN cm $^{-1}$	WL nm	$f$ $10^{-6}$	WN cm $^{-1}$	WL nm	$f$ $10^{-6}$	WN cm $^{-1}$	WL nm	$f$ $10^{-6}$
0	67976.574	147.1095	6.96						
1	67980.007	147.1021	3.68	67968.798	147.1263	9.94			
2	67981.976	147.0978	3.00	67965.923	147.1326	10.1	67958.125	147.1494	0.95
3	67982.477	147.0967	2.72	67961.641	147.1418	10.2	67948.888	147.1694	0.96
4	67981.617	147.0986	2.58	67955.949	147.1542	10.2	67938.275	147.1924	1.25
5	67979.272	147.1037	2.51	67948.888	147.1694	10.7	67926.363	147.2182	1.78
6	67975.495	147.1118	2.49	67940.069	147.1885	11.1	67912.850	147.2475	1.96
7	67970.196	147.1233	2.49	67930.077	147.2102	11.5	67898.022	147.2796	2.13
8	67963.529	147.1377	2.52	67918.618	147.2350	12.0	67881.677	147.3152	2.32
9	67955.395	147.1554	2.58	67905.587	147.2633	12.7	67864.025	147.3535	2.54
10	67945.925	147.1759	2.66	67891.308	147.2943	13.5	67844.745	147.3953	2.79
11	67934.834	147.1999		67875.631	147.3283		67824.127	147.4402	
12	67922.503	147.2266		67858.334	147.3658		67802.066	147.4881	
13				67839.555	147.4066				
14				67819.516	147.4502				
15				67797.941	147.4971				

  

$J''$	$^3P(J'')$			$^3R(J'')$		
	WN cm $^{-1}$	WL nm	$f$ $10^{-6}$	WN cm $^{-1}$	WL nm	$f$ $10^{-6}$
0				67969.643	147.1245	9.55
1	67968.123	147.1278		67968.123	147.1278	4.68
2	67965.223	147.1341	0.70	67965.071	147.1344	3.00
3	67960.879	147.1435	1.05	67960.815	147.1436	3.49
4	67955.144	147.1559	1.25	67955.144	147.1559	3.39
5	67948.023	147.1713	1.39	67948.023	147.1713	3.40
6	67939.318	147.1902	1.49	67939.318	147.1902	3.49
7	67929.291	147.2119	1.58	67929.291	147.2119	3.63
8	67917.828	147.2367	1.66	67917.828	147.2367	3.83
9	67904.805	147.2650	1.74	67904.805	147.2650	2.58
10	67890.492	147.2960	1.83	67890.492	147.2960	4.47
11	67874.837	147.3300		67874.837	147.3300	
12	67857.534	147.3676		67857.534	147.3676	
13	67838.812	147.4082		67838.812	147.4082	
14	67818.702	147.5195		67818.702	147.5195	

WN: Wavenumber

WL: Wavelength

References:

- G. Herzberg and T.J. Hugo, Can. J. Phys. **33**, 757 (1955).
- G. Stark, P.L. Smith, K. Yoshino, J.R. Esmond, T. Matsui, and K. Ito, Astrophys. J. Supp. Ser. **138**, 305 (2002).