

**Table 7.7** Deslandres table for the  $A^1\Pi - X^1\Sigma^+$  system of carbon monoxide<sup>a</sup>

$v'$	$v''$											
	0	1	2	3	4	5	6					
0	64 758 (1476)	(2145)	62 613 (1485)	(2117)	60 496 (2092)	58 404 (2063)	(1487)	56 341 (2037)	(1486)	54 304 (1487)	—	—
1	66 234 (1448)	(2136)	64 098 (1441)	—	—	59 891 (1444)	(2064)	57 827 (2036)	—	55 791 (1443)	(2010)	53 781 (1443)
2	67 682 (1407)	(2143)	65 539 (1413)	(2115)	63 424 (1414)	(2089)	61 335 (1370)	—	—	57 234 (1379)	(2010)	55 224 (1410)
3	69 089 (1378)	(2137)	66 952 (1382)	(2114)	64 838 (1370)	—	—	60 683 (2039)	(1379)	58 644 (1379)	—	—
4	70 467 (1341)	(2133)	68 334 (1338)	(2126)	66 208 (1350)	(2085)	64 123 (1343)	(2061)	62 062 (1343)	—	—	58 011 (1340)
5	71 808 (1307)	(2136)	69 672 (1305)	(2114)	67 558 (1303)	(2092)	65 466 (1299)	—	—	61 365 (1307)	(2014)	59 351 (1307)
6	73 115	(2138)	70 977	(2116)	68 861	(2096)	66 765	(2053)	64 712	(2040)	62 672	—

<sup>a</sup> Units are  $\text{cm}^{-1}$  throughout. Measurements are of band heads, formed by the rotational structure, not band origins. Figures in parentheses are differences; variations in differences (e.g. between the first two columns) are a result of uncertainties in experimental measurements.

v'/v''	0	1	2	Avg
14			16891.89 (100.46)	100.46
15			16992.35 (101.66)	101.66
16		17307.03 (96.38)	[213.01] 17094.02 (99.93)	98.16
17		17403.41 (94.40)	[209.46] 17193.95	94.40
18	17714.79 (91.48)	[216.98] 17497.81 (95.43)		93.46
19	17806.27 (92.43)	[213.02] 17593.24 (90.22)		91.33
20	17898.69 (90.15)	[215.23] 17683.47 (91.15)		90.65
21	17988.85 (87.80)	[214.23] 17774.62 (88.90)		88.35
22	18076.64 (85.36)	[213.12] 17863.52 (83.35)		84.36
23	18162.01 (82.84)	[215.13] 17946.88 (84.14)		83.49
24	18244.85 (80.24)	[213.83] 18031.01		80.24
25	18325.09 (80.95)			80.95
26	18406.06 (78.25)			78.25
27	18484.29 (75.47)			75.47
28	18559.76 (72.62)			72.62
29	18632.38			
Avg		[214.51]	[211.24]	