| | | | |
|---|---|---|---|
| Species Tag: | 26001 | Name: | CN |
| Version: | 2 | | Cyanide radical, X $^2\Sigma^+$ |
| Date: | Jan. 1996 | | $v = 0, 1$ |
| Contributor: | H. S. P. Müller | | $^{12}$C isotope |
| | | | |
| Lines Listed: | 511 / 363 | Q(300.0)= | 664.0906 |
| Freq. (GHz) < | 4000 | Q(225.0)= | 498.4499 |
| Max. J: | 35 | Q(150.0)= | 332.9077 |
| LOGSTR0= | -8.0 / -10.0 | Q(75.00)= | 167.4335 |
| LOGSTR1= | -8.0 / -10.0 | Q(37.50)= | 84.7308 |
| Isotope Corr.: | -0.006 | Q(18.75)= | 43.4081 |
| Egy. ($cm^{-1}$) > | 0.0 / 2042.4 | Q(9.375)= | 22.7963 |
| $\mu_a$ = | 1.45 | A= | |
| $\mu_b$ = | | B= | 56693.47 / 56171.10 |
| $\mu_c$ = | | C= | |

The data are from D. D. Skatrud F. C. De Lucia, G. A. Blake, and K. V. L. N. Sastry, 1983, J. Mol. Spect. **99**, 35 and E. Klisch, Th. Klaus, S. P. Belov, G. Winnewisser, and E. Herbst, 1995, Astron. Astrophys., 304, L5.

The data were used in a combined fit of all four observed vibrational states.

The dipole moment was taken from R. Thomson and F. W. Dalby, 1968, Can. J. Phys. **46**, 53. It was assumed to be the same for all vibrational states.