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|---|---|---|---|
| Species Tag: | 57002 | Name: | CC-13S |
| Version: | 1 | | Dicarbon monosulfide |
| Date: | Nov. 1993 | | $C^{13}CS$, X $^3\Sigma^-$ |
| Contributor: | E. A. Cohen | | |
| | | | |
| Lines Listed: | 1015 | Q(300.0)= | 5715.285 |
| Freq. (GHz) < | 1283 | Q(225.0)= | 4260.324 |
| Max. J: | 99 | Q(150.0)= | 2806.041 |
| LOGSTR0= | -8.0 | Q(75.00)= | 1354.115 |
| LOGSTR1= | -6.0 | Q(37.50)= | 632.479 |
| Isotope Corr.: | -1.955 | Q(18.75)= | 278.997 |
| Egy. ($cm^{-1}$) > | 0.0 | Q(9.375)= | 113.410 |
| $\mu_a$ = | 2.9 | A= | |
| $\mu_b$ = | | B= | 6446.96588(80) |
| $\mu_c$ = | | C= | |

The measurements were taken from S. Yamamoto *et al.*, 1990, Astrophys. J. **361**, 318. The dipole moment was quoted in this paper from an *ab initio* calculation by A. Murakami. Uniform weighting of the reported measurements reproduces the molecular parameters given in the referenced paper. An assigned uncertainty of 35 kHz for each measured line produces approximately the same $1\sigma$ uncertainties for calculated transitions as reported in the reference. Note that $N$ is not a good quantum number and that in this calculation the naming of the $N_J = 2_1$ and $0_1$ is the reverse of that in the reference. Yamamoto *et al.*, report 4 individual hyperfine components due to the $^{13}C$ splitting and 15 unresolved doublets. As a result the measured frequencies have not been merged. Only calculated frequencies are listed.