

Species Tag:	57001	Name:	C-13CS
Version:	1		Dicarbon monosulfide
Date:	Nov. 1993		^{13}CCS , X $^3\Sigma^-$
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Lines Listed:	1013	Q(300.0)=	5953.713
Freq. (GHz) <	1232	Q(225.0)=	4438.003
Max. J:	99	Q(150.0)=	2922.894
LOGSTR0=	-8.0	Q(75.00)=	1410.246
LOGSTR1=	-6.0	Q(37.50)=	658.455
Isotope Corr.:	-1.955	Q(18.75)=	290.244
Egy. (cm^{-1}) >	0.0	Q(9.375)=	117.819
$\mu_a =$	2.9	A=	
$\mu_b =$		B=	6188.08655(51)
$\mu_c =$		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 30 kHz for each measured line produces approximately the same 1σ 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 9 individual hyperfine components due to the ^{13}C splitting and 17 unresolved doublets. As a result the measured frequencies have not been merged. Only calculated frequencies are listed.