Species Tag:	40004	Name:	$\operatorname{SiC}$
Version:	1		$X^{3}\Pi$ , $v = 1$ state
Date:	Dec. 1994		
Contributor:	H. M. Pickett		
Lines Listed:	703	Q(300.0) =	1567.7215
Freq. $(GHz) <$	9999	Q(225.0) =	1105.7351
Max. J:	90	Q(150.0) =	667.1014
LOGSTR0 =	-7.0	Q(75.00) =	265.0090
LOGSTR1 =	-9.0	Q(37.50) =	103.4726
Isotope Corr.:	0.0	Q(18.75) =	46.3133
Egy. $(cm^{-1}) >$	950.0	Q(9.375) =	24.9717
$\mu_a =$	1.7	A=	
$\mu_b =$		B=	20297.582
$\mu_c =$		C=	

The millimeter lines are from R. Mollaaghababa, C. A. Gottlieb, J. M. Vrtilek, and P. Thaddeus, 1990, Astrophys. J. Lett. Ed. **352**, L21-23. The dipole moment is a theoretical one. (See ground state species.) The partition functions are based on a sum of states for the ground and first vibrationally excited state. The spectra were fitted to a Hunds case (b) Hamiltonian. The correlation of states in case (b) with those for case (a) are:

$$\begin{array}{ll} N=J & \Omega=0 \\ N=J+1 & \Omega=1 \\ N=J-1 & \Omega=2 \end{array}$$