Species Tag: Version: Date: Contributor:	50007 3 May 2009 Brian Drouin	Species Name:	CH3Cl-35 Methyl chloride ³⁵ Cl isotope
Lines Listed:	6386	Q(300.0) =	28103.92
Freq. $(GHz) <$	2115	Q(225.0) =	17896.38
Max. J:	80	Q(150.0) =	9676.27
LOGSTR0=	-8.0	Q(75.00) =	3406.96
LOGSTR1=	-8.0	Q(37.50) =	1205.45
Isotope Corr.:	-0.122	Q(18.75) =	443.81
Egy. $(cm^{-1}) >$	-0.0	Q(9.375) =	174.60
$\mu_a =$	1.899	A=	156051
$\mu_b =$		B=	13292.9
$\mu_c =$		C =	В

The data were taken from G. Włodarczak et al., 1986, J. Mol. Spect. 116, 251, and references cited therein. Additional measurements up to K = 12 were made at JPL for $J = 24 \leftarrow 23$. The dipole moment is from J. A. Golby and R. J. Butcher, 1984, J. Mol. Spect. 107, 292, but see also G. Włodarczak et al., 1985, J. Mol. Spect. 112, 401. In version two a slight modification to the partition function was implemented by taking the product of the calculated rotational partition function with a harmonic oscillator vibrational paratition function. In version three the D_3 symmetry group with appropriate spin weights for this C_{3v} species were applied in order to produce accurate relative intensities.