

Species Tag:	52009	Name:	CH3Cl-37
Version:	3		Methyl chloride,
Date:	May 2009		³⁷ Cl isotope
Contributor:	B. J. Drouin		

Lines Listed:	6438	Q(300.0)=	28646.54
Freq. (GHz) <	2083	Q(225.0)=	18198.18
Max. J:	81	Q(150.0)=	9833.628
LOGSTR0=	-7.5	Q(75.00)=	3462.234
LOGSTR1=	-7.9	Q(37.50)=	1224.926
Isotope Corr.:	-0.611	Q(18.75)=	450.886
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	177.354
μ_a =	1.895	A=	156051.
μ_b =		B=	13088.1710
μ_c =		C=	B

The data were taken from G. Wlodarczak *et al.*, 1986, J. Mol. Spect. **116**, 251, and references cited therein. Additional measurements up to $K = 12$ were made at JPL for $J = 24 - 23$. The dipole moment is from J. A. Golby and R. J. Butcher, 1984, J. Mol. Spect. **107**, 292, but see also G. Wlodarczak *et al.*, 1985, J. Mol. Spect. **112**, 401. The vibrational portion of the partition function was added in version two and version three utilizes the spin group symmetry to produce accurate relative intensities.