

Species Tag:	31008	Name:	CH3NH2
Version:	1		Methyl Amine,
Date:	Jan. 2009		GS
Contributor:	S. Yu		
	B. J. Drouin		
Lines Listed:	28298	Q(300.0)=	124715.9513
Freq. (GHz) <	5588	Q(225.0)=	80964.9962
Max. J:	60	Q(150.0)=	44047.1577
LOGSTR0=	-8.0	Q(75.00)=	15560.7608
LOGSTR1=	-8.0	Q(37.50)=	5496.8378
Isotope Corr.:	0.0	Q(18.75)=	1941.5766
Egy. (cm <sup>-1</sup> ) >	0.0	Q(9.375)=	685.9982
$\mu_a$ =	-0.307	A=	103155.74776
$\mu_b$ =		B=	22608.31827
$\mu_c$ =	1.258	C=	21730.42417

The vibrational designations are as the following: 0 for the  $A_1$  species; 1 for  $A_2$ ; 2 for  $B_1$ ; 3 for  $B_2$ ; 4 for  $E_1$ ,  $l = 1$ ; 5 for  $E_1$ ,  $l = -1$ ; 6 for  $E_2$ ,  $l = 1$ ; 7 for  $E_2$ ,  $l = -1$ . The experimental measurements were reported by Ilyushin et al., 2005, J. Mol. Spectrosc. **229**, 170; Kreglewski et al., 1992, J. Mol. Spectrosc. **156**, 383; Kreglewski et al., 1992, Chem. Phys. Lett. **196**, 155; Ohashi et al., 1987, J. Mol. Spectrosc. **126**, 443; Takagi and Kojima, 1971, J. Phys. Soc. Japan **30**, 1145; Nishikawa, 1957, J. Phys. Soc. Japan **12**, 668; Lide, 1954, J. Chem. Phys., **22**, 1613; Shimoda et al., 1954, J. Phys. Soc. Japan, **9**, 974.

The dipole moments were taken from the results from Lide, 1957, J. Chem. Phys. **27**, 343 and Takagi and Kojima, 1971, J. Phys. Soc. Jpn. **30**, 1145.