

Species Tag:	42003	Name:	NH2CN
Version:	1		Cyanamide
Date:	Jan. 1991		
Contributor:	E. A. Cohen		

Lines Listed:	13898	Q(300.0)=	17902.305
Freq. (GHz) <	9299	Q(225.0)=	11228.962
Max. J:	90	Q(150.0)=	5730.062
LOGSTR0=	-9.0	Q(75.00)=	1730.290
LOGSTR1=	-8.0	Q(37.50)=	506.222
Isotope Corr.:	0.0	Q(18.75)=	152.887
Egy. (cm <sup>-1</sup> ) >	0.0	Q(9.375)=	44.101
$\mu_a$ =	4.3269	A=	312141.88
$\mu_b$ =		B=	10129.758
$\mu_c$ =	-0.9612	C=	9865.924

The fit is based on microwave data reported by W. Read *et al.*, 1986, J. Mol. Spect. **115**, 316, and several far-infrared laser sideband measurements near 2.6 THz and far-infrared FT measurements of H. Birk, 1988, Thesis, Justus Liebig-Universit at Gießen. The data include transitions with  $J \leq 70$ ,  $K_a \leq 9$ . The partition function includes both inversion states for  $J < 90$ ,  $K_a < 17$ . Nitrogen quadrupole splittings are not given. The rotational constants and  $\mu_a$  given above are for the lower inversion state.  $\mu_c$  connects the two states. For  $K_a > 9$  there is a perturbation from another vibrational state and the predictions have been truncated at that point. Frequencies for which the experimental uncertainty is greater than 200 kHz have not been merged with the calculated frequencies.