

Species Tag:	31005	Name:	HNO
Version:	1		Nitrosylhydride,
Date:	Feb. 1996		X $^1A'$
Contributor:	J. C. Pearson		

Lines Listed:	10293	Q(300.0)=	2751.7066
Freq. (GHz) <	9952	Q(225.0)=	1790.4519
Max. J:	30	Q(150.0)=	975.4327
LOGSTR0=	-8.0	Q(75.00)=	346.0358
LOGSTR1=	-8.0	Q(37.50)=	123.3276
Isotope Corr.:		Q(18.75)=	44.4254
Egy. (cm^{-1}) >	0.0	Q(9.375)=	17.2300
μ_a =	1.03	A=	553898.9
μ_b =	1.31	B=	42312.9
μ_c =		C=	39165.1

The observed lines are from: S. Satio and K. Takagi, 1972, *Astrophys J.* **175**, L47. K. Takagi and S. Saito, 1973, *J. Mol. Spect.* **47**, 99. J. E. T. Corrie, G. W. Kirby, A. E. Laird, L. W. Mackinnon and J. K. Tyler, 1978, *Chem. Comm.*, 275. K. V. L. N. Sastry, P. Helminger, G. M. Plummer, E. Herbst and F. C. De Lucia, 1984, *Astrophys. J. Suppl.* **55**, 563.

The dipole was measured by Takagi and Saito. The H_K constant was fixed to the IR/microwave/electronic value of J. W. C. Johns, A. R. W. McKeller and E. Weinberger, 1983, *Can. J. Phys.* **61**, 1106.

The molecule was first observed in interstellar emission by B. L. Ulich, J. M. Hollis and L. E. Snyder, 1977, *Astrophys. J.* **217**, L105.