

Species Tag: 47007  
Version: 1  
Date: Jan. 2006  
Contributor: B. J. Drouin

Name: HONO  
Trans and Cis

Lines Listed:	54411	Q(300.0)=	11962.7876
Freq. (GHz) <	9500	Q(225.0)=	7253.7830
Max. J:	199	Q(150.0)=	3537.0834
LOGSTR0=	-12.0	Q(75.00)=	1050.7792
LOGSTR1=	-10.0	Q(37.50)=	346.0466
Isotope Corr.:	-0.0	Q(18.75)=	122.0725
Egy. (cm <sup>-1</sup> ) >	0.0/130.2	Q(9.375)=	43.5646
$\mu_a$ =	1.378/0.306	A=	92892.038/84101.851
$\mu_b$ =	1.242/1.389	B=	12524.97/13169.077
$\mu_c$ =	0.0/0.0	C=	11016.67/11364.166

The data were taken from: A. Dehayem-Kamadjeu, O. Pirali, J. Orphal, I. Kleiner and J.-M. Flaud, (2005) *J. Mol. Spectrosc.*, 234(1), 182-189; J.-M. Guilmot, F. Melen, M. Herman, (1993) *J. Mol. Spectrosc.* 160, 401-410; J.-M. Guilmot, M. Godefroid, M. Herman, (1993) *J. Mol. Spectrosc.* 160, 387-400. The microwave data is weighted with 30 kHz uncertainties and the FIR data 15 MHz. The dipole moments are from A.P. Cox, A.H. Brittain, D.J. Finnigan, (1970), *Trans. Faraday Soc.* 67 2179-2194. The trans/cis energy difference is from Varma and Curl (1976), *J. Phys. Chem.* 80(4), 402-409. The partitioning assumes the isomers are in thermal equilibrium.