

Species Tag:	46006	Name:	NO2
Version:	2		NO <sub>2</sub> ,
Date:	Jan. 1991		Nitrogen dioxide
Contributor:	H. M. Pickett		X <sup>2</sup> A <sub>1</sub>

Lines Listed:	16444	Q(300.0)=	13508.277
Freq. (GHz) <	6448	Q(225.0)=	8761.935
Max. J:	71	Q(150.0)=	4764.310
LOGSTR0=	-9.0	Q(75.00)=	1683.837
LOGSTR1=	-8.0	Q(37.50)=	596.348
Isotope Corr.:	0.0	Q(18.75)=	211.836
Egy. (cm <sup>-1</sup> ) >	0.0	Q(9.375)=	75.701
$\mu_a$ =		A=	239904.
$\mu_b$ =	0.316	B=	13002.
$\mu_c$ =		C=	12305.

The data were taken from W. C. Bowman and F. C. De Lucia, 1982, J. Chem. Phys. **77**, 92, and N. Semmoud-Monnanteuil *et al.*, 1989, J. Mol. Spect. **134**, 176. Additional data from A. Perrin *et al.*, 1988, Mol. Phys. **63**, 791, also were used, and high-order constants were fixed to the values in this reference. The spectra were calculated using a full diagonalization of the Hamiltonian. The partition function was calculated by direct summation to  $F = 90$ .