

Species Tag:	64005	Name:	SO2-v2
Version:	1		Sulfur dioxide
Date:	Nov. 1996		$v_2 = 1$
Contributor:	H. S. P. Müller		

Lines Listed:	9225	Q(300.0)=	5868.004
Freq. (GHz) <	5900	Q(225.0)=	3808.619
Max. J:	99	Q(150.0)=	2071.956
LOGSTR0=	-10.0	Q(75.00)=	732.578
LOGSTR1=	-9.5	Q(37.50)=	259.376
Isotope Corr.:	-0.022	Q(18.75)=	92.028
Egy. (cm^{-1}) >	517.75	Q(9.375)=	32.780
$\mu_a =$		A=	61954.816
$\mu_b =$	1.6261	B=	10320.397
$\mu_c =$		C=	8783.856

These measurements are based on fits to the data of (1) P. A. Helminger and F. C. De Lucia, 1985, J. Mol. Spect. **111**, 66; (2) the compilation of F. J. Lovas, 1985, J. Phys. Chem. Ref. Data **14**, 395; and (3) E. A. Alekseev, S. F. Dyubko, V. V. Ilyushin, and S. V. Podnos, 1996, J. Mol. Spect. **176**, 316. Some higher distortion constants have been fixed to values of the $^{32}\text{SO}_2$ isotopomer.

The dipole moment is from (4) D. Patel D. Margolese, and T. R. Dyke, 1979, J. Chem. Phys. **70**, 2740.