

Species Tag:	64002	Name:	SO2
Version:	4		Sulfur dioxide
Date:	Nov. 1996		
Contributor:	H. S. P. Müller		
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Lines Listed:	13573	Q(300.0)=	5918.720
Freq. (GHz) <	7682	Q(225.0)=	3841.714
Max. J:	99	Q(150.0)=	2090.601
LOGSTR0=	-10.0	Q(75.00)=	739.016
LOGSTR1=	-10.0	Q(37.50)=	261.662
Isotope Corr.:	-0.022	Q(18.75)=	92.841
Egy. (cm <sup>-1</sup> ) >	0.0	Q(9.375)=	33.070
$\mu_a$ =		A=	60778.550
$\mu_b$ =	1.6331	B=	10318.074
$\mu_c$ =		C=	8799.703

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; (3) E. A. Alekseev, S. F. Dyubko, V. V. Ilyushin, and S. V. Podnos, 1996, *J. Mol. Spect.* **176**, 316; and from (4) E. Klisch, S. P. Belov, and G. Winnewisser, private communication (1996). In addition, unpublished far-infrared laser sideband measurements made at JPL have been included for transitions with  $K_a \leq 28$ . Most of these transitions have been measured relative to well predicted lines; these lines and lines with large uncertainties (5 MHz) have not been merged.

The dipole moment is from (5) D. Patel D. Margolese, and T. R. Dyke, 1979, *J. Chem. Phys.* **70**, 2740.