

Species Tag:	48002	Name:	SO-v1
Version:	1		X $^3\Sigma$ , $\nu = 1$
Date:	Dec. 1979		
Contributor:	H. M. Pickett		

Lines Listed:	261	Q(300.0)=	850.159
Freq. (GHz) <	2969	Q(225.0)=	632.266
Max. J:	51	Q(150.0)=	414.477
LOGSTR0=	-7.7	Q(75.00)=	197.515
LOGSTR1=	-9.4	Q(37.50)=	90.344
Isotope Corr.:	-0.022	Q(18.75)=	38.878
Egy. ( $\text{cm}^{-1}$ ) >	1111.5	Q(9.375)=	15.904
$\mu_a =$	1.55	A=	
$\mu_b =$		B=	21351.0
$\mu_c =$		C=	

The calculational method is described in T. Amano and E. Hirota, 1974, J. Mol. Spect. **53**, 346. The data are from T. Amano, E. Hirota, and Y. Morino, 1967, J. Phys. Soc. Jap. **22**, 399. All centrifugal distortion constants were fixed to their ground state values. Magnetic and electric dipole transitions are included. The electric dipole moment is from F. X. Powell and D. R. Lide, 1964, J. Chem. Phys. **41**, 1413. This state is  $1111.5 \text{ cm}^{-1}$  above  $\nu=0$  (G. Herzberg, 1950, Spectra of Diatomic Molecules, Van Nostrands, New York).