

Species Tag:	34002	Name:	H2-32-S
Version:	3		Hydrogen sulfide
Date:	Jan. 1996		³² S isotope
Contributor:	H. S. P. Müller		

Lines Listed:	1525	Q(300.0)=	514.4470
Freq. (GHz) <	9999	Q(225.0)=	334.5222
Max. J:	21	Q(150.0)=	182.7622
LOGSTR0=	-8.9	Q(75.00)=	65.5265
LOGSTR1=	-9.9	Q(37.50)=	23.8654
Isotope Corr.:	-0.022	Q(18.75)=	8.6996
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	2.9106
μ_a =		A=	310583.57
μ_b =	0.974	B=	270367.68
μ_c =		C=	141820.03

The experimental measurements were analyzed using the methods described in S. P. Belov *et al.*, 1995, *J. Mol. Spect.* **173**, 380. The Hamiltonian contains distortion constants up to tenth order. The measurements were taken from S. P. Belov *et al.*, which includes measurements from P. Helminger, R. L. Cook, and F. C. De Lucia, 1972, *J. Chem. Phys.* **56**, 4581, and P. Helminger, F. C. De Lucia, and W. H. Kirchhoff, 1973, *J. Phys. Chem. Ref. Data* **2**, 213. Also included in the fit are FIR lines from K. M. T. Yamada and S. Klee, 1994, *J. Mol. Spect.* **166**, 395. Wherever a line has been measured more than once, the one with the smaller uncertainty is listed. The highest J and K_a included in the fit are 16 and 13 respectively. The uncertainties of transitions beyond these values are only qualitative and should be taken with care. The dipole moment was reported by C. Huiszoon and A. Dymanus, 1965, *Physica* **31**, 1049.