

Species Tag:	35001	Name:	HDS
Version:	1		Hydrogen sulfide,
Date:	Jan. 1980		deuterium isotope
Contributor:	R. L. Poynter		

Lines Listed:	1138	Q(300.0)=	430.923
Freq. (GHz) <	2998	Q(225.0)=	280.931
Max. J:	20	Q(150.0)=	153.426
LOGSTR0=	-11.3	Q(75.00)=	54.752
LOGSTR1=	-9.3	Q(37.50)=	19.756
Isotope Corr.:	-3.523	Q(18.75)=	7.291
Egy. (cm <sup>-1</sup> ) >	0.0	Q(9.375)=	2.829
$\mu_a$ =	0.470	A=	292351.302
$\mu_b$ =	0.974	B=	147861.801
$\mu_c$ =		C=	96704.120

The experimental measurements were analyzed using the methods described in W. H. Kirchhoff, 1972, *J. Mol. Spect.* **40**, 125. The experimental measurements were taken from: R. E. Hillger and M. W. P. Strandberg, 1951, *Phys. Rev.* **83**, 575. P. Thaddeus, L. C. Krisher, and J. H. N. Loubser, 1964, *J. Mol. Spect.* **40**, 125. P. Helminger, F. C. De Lucia, and W. H. Kirchhoff, 1973, *J. Phys. Chem. Ref. Data* **2**, 215. G. Steenbeckeliers, quoted in F. J. Lovas, 1978, *J. Phys. Chem. Ref. Data* **7**, 1445.

The dipole moment was reported by R. E. Hillger and M. W. P. Strandberg, 1951, *Phys. Rev.* **83**, 575.