

Species Tag:	46005	Name:	HCOOH
Version:	1		Formic acid,
Date:	Jan. 1980		ground <i>trans</i> state
Contributor:	R. L. Poynter		

Lines Listed:	1888	Q(300.0)=	8883.826
Freq. (GHz) <	2986	Q(225.0)=	5770.321
Max. J:	20	Q(150.0)=	3141.233
LOGSTR0=	-9.2	Q(75.00)=	1085.676
LOGSTR1=	-8.8	Q(37.50)=	393.459
Isotope Corr.:	0.	Q(18.75)=	139.991
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	49.934
μ_a =	1.396	A=	77512.25
μ_b =	0.260	B=	12055.11
μ_c =		C=	10416.12

The experimental measurements were analyzed using the methods described in W. H. Kirchhoff, 1972, *J. Mol. Spect.* **41**, 333. The measurements were taken from: J. Bellet, C. Samson, G. Steenbeckeliers, and R. Wertheimer, 1971, *J. Mol. Struc.* **9**, 49. R. G. Lerner, B. P. Dailey, and J. P. Friend, 1957, *J. Chem. Phys.* **26**, 680. R. Trambarulo, A. Clark, and C. Hearn, 1958, *J. Chem. Phys.* **28**, 736.

The dipole moment used in the present work was measured by H. Kim, R. Keller, and W. D. Gwinn, 1962, *J. Chem. Phys.* **37**, 2748, and was adjusted to the new OCS standard (J. S. Muentzer, 1968, *J. Chem. Phys.* **48**, 4544). Improved values [μ_a = 1.4214(21)D and μ_b = 0.2096(65)D] have been reported recently by H. Kuze, T. Kuga, and T. Shimizu, 1982, *J. Mol. Spect.* **93**, 248.