

Species Tag:	42005	Name:	K-41-H
Version:	1		Potassium hydride,
Date:	Oct. 1995		⁴¹ K isotope
Contributor:	M.L. Delitsky		$\nu = 0, 1$
	H.M. Pickett		
Lines Listed:	40	Q(300.0)=	63.097
Freq. (GHz) <	3899	Q(225.0)=	46.993
Max. J:	20	Q(150.0)=	31.331
LOGSTR0=	-20	Q(75.00)=	15.811
LOGSTR1=	-100	Q(37.50)=	8.073
Isotope Corr.:	-1.167	Q(18.75)=	4.215
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	2.303
$\mu_a =$	8.136	A=	
$\mu_b =$	8.136	B=	101141.3
$\mu_c =$		C=	

No rotational transitions were available. The IR transitions were taken from: Haese, Liu and Altman, 1984, *J. Chem. Phys.* **81**, 3766. Additional information on excited vibrational states and the electronic states is reviewed in W. Stwalley *et al.*, 1991, *J. Phys. Chem. Ref. Data* **20**,153.

The dipole moment for the parent species of Langhoff *et al.*, 1986, *J. Chem. Phys.* **85**, 5158 was assumed.

The values of Y_{12} , Y_{03} , and Y_{13} were constrained by isotope relations to values from the main isotope.