Species Tag:	56010	Species Name:	HCCCH2OH
Version:	1		Propargyl Alcohol
Date:	June 2006		Gauche+ and Gauche-
Contributor:	J. C. Pearson		Ground state
Lines Listed:	104073	Q(300.0)=	65110.1779
Freq. (GHz) <	3153	Q(225.0)=	41902.8230
Max. J:	80	Q(150.0)=	22120.1896
LOGSTR0=	-12.0	Q(75.00)=	7156.0917
LOGSTR1=	-9.0	Q(37.50)=	2187.7639
Isotope Corr.:	0	Q(18.75)=	641.9231
Egy. (cm^{-1}) >	0.0	Q(9.375)=	198.4420
μ_a =	1.037	A=	32544.9
μ_b =	0.147	B=	4701.9
μ_c =	0.75	C=	4232.1
		ΔE=	652389.5

The experimental measurements, dipoles and analysis were described in J.C. Pearson and B.J. Drouin, 2005, J. Mol. Spectrosc. 234, 149. The catalog contains the calculated frequencies from the quadratic (c056010.cat) interaction analysis. The archive file contains the linear analysis calculation (c056010b.cat) as well as the linear and quadratic input files. The archive file also contains complete set of energy levels (.egy file) and mixing coefficients.

The data set was quite extensive and should predict well at low K_a to J=70 decreasing with K_a to J=45 at K_a=30. Between K_a=31 and 39 it should only be trusted for a-type R branches. Above K_a=40 the prediction should not be trusted at all.