

Species Tag:	51008	Name:	HNCCC
Version:	1		3-Imino-
Date:	Jan. 1995		1,2-propa-
Contributor:	M. L. Delitsky		dienylidene
	H. M. Pickett		
Lines Listed:	574	Q(300.0)=	4017.0039
Freq. (GHz) <	931.415	Q(225.0)=	3014.3657
Max. J:	99	Q(150.0)=	2009.8453
LOGSTR0=	-10.0	Q(75.00)=	1005.3423
LOGSTR1=	-100.0	Q(37.50)=	503.1517
Isotope Corr.:	0.0	Q(18.75)=	252.0726
Egy. (cm <sup>-1</sup> ) >		Q(9.375)=	126.5386
$\mu_a$ =	5.665	A=	
$\mu_b$ =		B=	4668.338
$\mu_c$ =		C=	

The observed frequency measurements were taken from: Y. Hirahara, Y. Oshima and Y. Endo, 1993, *Astrophys. J.* **403**, L83. Kawaguchi *et al.*, 1992, *Astrophys. J.* **396**, L49.

The dipole moment was calculated by P. Botschwina, M. Horn, S. Seeger and J. Flügge, 1992, *Chem. Phys. Lett.* **195**, 427.

Although quantum calculations of the structure indicate that the molecule may be non-linear, spectral measurements are available only for the  $K = 0$  state. For the purposes of fitting the spectra and predicting frequencies and intensities, the  $K = 0$  states are equivalent to a linear molecule. The catalog entries for this species are currently presented as a linear molecule, and the intensities are calculated for a unit concentration of  $K = 0$  molecules in the ground vibrational state.