Species Tag:	38003	Name:	C3D
Version:	1		2-Propynylidyne
Date:	Apr. 1995		deuterium isotope,
Contributor:	H. M. Pickett		ground ${}^{2}\Pi$ state
	M. L. Delitsky		and $\nu_4  {}^2\Sigma$ state
Lines Listed:	1560	Q(300.0) =	3579.9410
Freq. $(GHz) <$	2650	Q(225.0) =	2661.2498
Max. J:	60	Q(150.0) =	1736.0584
LOGSTR0 =	-10.	Q(75.00) =	814.1121
LOGSTR1=	-100	Q(37.50) =	361.2093
Isotope Corr.:		Q(18.75) =	147.2941
Egy. $(cm^{-1}) >$	0.0	Q(9.375) =	55.9382
$\mu_a =$	3.10	A =	
$\mu_b =$		B=	10097.38
$\mu_c =$		C =	

The observed lines were measured by S. Yamamoto, S. Saito and M. Ohishi, 1990, Astrophys. J. **348**, 363. The dipole has been assumed to be the same as for the ground state.

The  $\nu_4 = 1$  state is only 119 GHz above the ground state and is strongly coupled with the ground state. The form of the interaction is given in J. T. Hougen, 1962, J. Chem. Phys. **36**, 519. The dipole moment for the  $\nu_4 = 1$  state is assumed to be the same as the ground state. There is a 0.5 Debye b–symmetry dipole moment between the ground state and  $\nu_4 = 1$ .