

|                            |               |           |                |
|----------------------------|---------------|-----------|----------------|
| Species Tag:               | 43001         | Name:     | CHDCO          |
| Version:                   | 1             |           | Ketene,        |
| Date:                      | Jan. 1980     |           | mono deuterium |
| Contributor:               | R. L. Poynter |           | isotope        |
| Lines Listed:              | 886           | Q(300.0)= | 6683.440       |
| Freq. (GHz) <              | 552           | Q(225.0)= | 4340.103       |
| Max. J:                    | 29            | Q(150.0)= | 2344.228       |
| LOGSTR0=                   | -22.2         | Q(75.00)= | 828.705        |
| LOGSTR1=                   | -22.7         | Q(37.50)= | 295.801        |
| Isotope Corr.:             | -3.523        | Q(18.75)= | 105.148        |
| Egy. (cm <sup>-1</sup> ) > | 0.0           | Q(9.375)= | 37.497         |
| $\mu_a$ =                  |               | A=        | 194313.        |
| $\mu_b$ =                  | 1.422         | B=        | 9647.396       |
| $\mu_c$ =                  |               | C=        | 9174.975       |

The experimental measurements were analyzed using the methods described in W. H. Kirchhoff, 1972, J. Mol. Spect. **41**, 333. The measurements were taken from L. Nemes and M. Winnewisser, 1976, Z. Naturforsch. **31a**, 272. The dipole moment is assumed to be the same as for the parent species.