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|----------------------------|---------------|-----------|---------------------------------------|
| Species Tag: | 56005 | Name: | CH ₂ DCH ₂ CN-s |
| Version: | 2 | | Ethyl cyanide, |
| Date: | Jan. 1980 | | deuterium isotope on |
| Contributor: | R. L. Poynter | | methyl carbon <i>trans</i> |
| | | | to CN group |
| Lines Listed: | 1166 | Q(300.0)= | 118795.508 |
| Freq. (GHz) < | 530 | Q(225.0)= | 75300.883 |
| Max. J: | 10 | Q(150.0)= | 41995.227 |
| LOGSTR0= | -9.0 | Q(75.00)= | 14849.096 |
| LOGSTR1= | -8.3 | Q(37.50)= | 5250.493 |
| Isotope Corr.: | -3.347 | Q(18.75)= | 1787.722 |
| Egy. (cm ⁻¹) > | 0.0 | Q(9.375)= | 607.995 |
| μ_a = | 3.84 | A= | 27650.795 |
| μ_b = | 1.37 | B= | 4425.061 |
| μ_c = | | C= | 4000.763 |

The experimental measurements were analyzed using the methods described in W. H. Kirchhoff, 1972, *J. Mol. Spect.* **41**, 333, and W. H. Kirchhoff and D. R. Johnson, 1973, *J. Mol. Spect.* **45**, 159. The measurements were taken from H. Mäder, H. M. Heise, and H. Dreizler, 1973, *Z. Naturforsch.* **29a**, 164. The dipole moment is an approximate value.