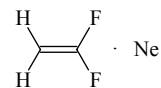


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MW $\text{C}_2\text{H}_2\text{F}_2\text{Ne}$ **1,1-Difluoroethene – neon (1/1)**
(weakly bound complex) **C_s**
(effective symmetry class)
(large-amplitude motion)

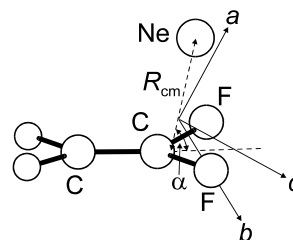
$$\frac{r_0}{R_{\text{cm}}} \frac{\text{\AA}}{3.29(2)}$$

$$\frac{\theta_0}{\alpha^{\text{a)}}} \frac{\text{deg}}{67.8(8)}$$



The rotational transitions are split by 0.78 MHz due to the tunneling motion of Ne between the two states above and below the plane of 1,1-difluoroethene, and this motion is hindered by a barrier of *ca.* 36 cm^{-1} at the planar C_{2v} configuration.

^{a)} See figure for the definition.



Dell'Erba, A., Melandri, S., Millemaggi, A., Caminati, W., Favero, P.G.: J. Chem. Phys. **112** (2000) 2204.