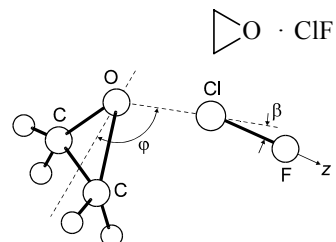


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MW**C₂H₄ClFO****Oxirane – chlorine fluoride (1/1)****C_s**Ethylene oxide – chlorine fluoride (1/1) (effective symmetry class)
(weakly bound complex) (large-amplitude motion)

r_0	Å	θ_0	deg
H...F ^{a)}	4.290(1)	β ^{b)}	2.91(3)
O...Cl	2.437(2)	φ ^{b)}	112.7(1)

The C₂ axis of oxirane (dashed line, see figure) and the ClF axis *z* lie in the symmetry plane of the complex of C_s symmetry.



^{a)} Distance between the nearest pair of equivalent protons of the oxirane ring to F.

^{b)} See figure for the definition.

Bloemink, H.I., Evans, C.M., Holloway, J.H., Legon, A.C.: Chem. Phys. Lett. **251** (1996) 275.