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MW

 $\text{C}_2\text{H}_3\text{ClF}_2$
Fluoroethene – chlorine fluoride (1/1)

(weakly bound complex)

 nearly C_s

 (effective symmetry class)
(large-amplitude motion)

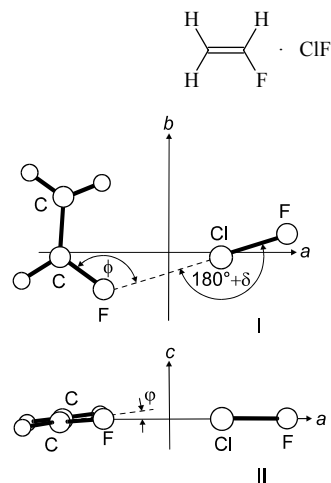
r_0	\AA
F...Cl	2.7190(48)

θ_0	deg
ϕ^a	125.7(3)
φ^a	10.15 ^{b)}
δ^a	0.6(1)

A detailed interpretation of the Cl nuclear quadrupole coupling tensor $\chi_{a\beta}$ ($a, \beta = a, b, c$) leads to the conclusion that the complex is nearly planar and that the interaction between the vinyl fluoride and ClF subunits is weak.

^{a)} See figure for the definition; projections to the principal inertial ab (I) and bc (II) planes are displayed.

^{b)} Calculated from the Cl nuclear quadrupole coupling constants.



Davey, J.B., Holloway, J.H., Legon, A.C., Wacławik, E.R.: Phys. Chem. Chem. Phys. **1** (1999) 2415.