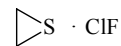


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MW**C₂H₄ClFS****Thiirane – chlorine fluoride (1/1)**
(weakly bound complex)**C_s**
(effective symmetry class)
(large-amplitude motion)

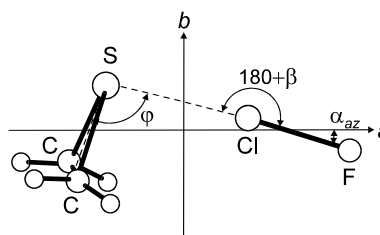
$r_0(\text{Cl-F})$ [Å]	$r_0(\text{S}\cdots\text{Cl})$ [Å]	$\theta_0(\varphi)$ [deg] ^{a)}	$\theta_0(\beta)$ [deg] ^{a) b)}
1.63176 ^{c)}	2.542(3)	95.0(2)	3.5(2)
1.73176 ^{c)}	2.472(2)	95.9(1)	3.7(2)
1.83176 ^{c)}	2.400(2)	97.0(2)	3.8(2)
1.93176 ^{c)}	2.327(4)	98.0(2)	4.0(2)

Derived for (CH₂)₂S · ³⁵ClF isotopomer under the constraints of different $r_0(\text{Cl-F})$ bond lengths and $\alpha_{az} = 17.38(1)^\circ$.

^{a)} See figure for the definition.

^{b)} Uncertainties were not estimated in the original paper.

^{c)} Assumed.



Evans, C.M., Holloway, J.H., Legon, A.C.: Chem. Phys. Lett. **255** (1996) 119.