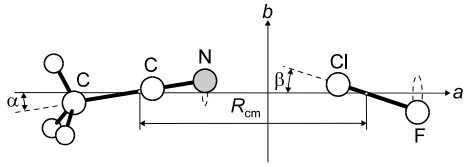
235 **C_2H_3ClFN** **Acetonitrile – chlorine fluoride (1/1)** **C_{3v}**
MW (weakly bound complex) (effective symmetry class)
(large-amplitude motion)
$H_3C–C{\equiv}N \cdot ClF$

Isotopic species	r_0(N...Cl) [Å]	$r_0(R_{cm})$ [Å]	$\theta_0(\alpha_{av})$ [a]) [deg]	$\theta_0(\beta_{av})$ [a]) [deg]
$CH_3C^{14}N \cdot {}^{35}ClF$	2.561(2)	4.459(2)	10(2)	7(1)
$CH_3C^{14}N \cdot {}^{37}ClF$	2.561(2)	4.438(2)	10(2)	7(1)
$CD_3C^{14}N \cdot {}^{35}ClF$	2.561(2)	4.572(2)	10(2)	7(1)
$CH_3C^{15}N \cdot {}^{35}ClF$	2.561(2)	4.428(2)	10(2)	7(1)

The intermolecular stretching and bending force constants are 13.96 N m^{-1} and 3.00×10^{-20} J rad^{-2}, respectively.

[a]) See figure for the definition. Average value.



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