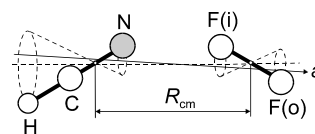


76
MW

CHF₂N
Hydrogen cyanide – difluorine (1/1)
(weakly bound complex)

C_{∞v}
(effective symmetry class)
(large-amplitude motion)
H–C≡N · F₂

Isotopic species	$r_0(R_{\text{cm}})$ [Å]	$r_0(\text{N} \cdots \text{F}(\text{i}))$ [Å]	k_{σ} [N m ⁻¹] ^{a)}
HC ¹⁵ N · F ₂	4.087(3)	2.803(3)	2.615
HC ¹⁴ N · F ₂	4.107(3)	2.802(2)	2.619
DC ¹⁴ N · F ₂	4.164(3)	2.800(3)	2.604

^{a)} Intermolecular stretching force constant.

 Cooke, S.A., Cotti, G., Evans, C.M., Holloway, J.H., Legon, A.C.: Chem. Phys. Lett. **262** (1996) 308.