

1427
MW

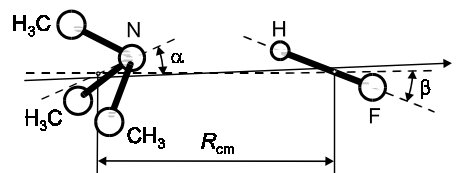
C₃H₁₀FN

Trimethylamine – hydrogen fluoride (1/1)
(weakly bound complex)

C_{3v}
(effective symmetry class)
(CH₃)₃N · HF

Isotopic species	$r_0(R_{\text{cm}})^{\text{a}} [\text{\AA}]$	$r_0(\text{N}\dots\text{F})^{\text{a}} [\text{\AA}]$	$k_{\sigma} [\text{N m}^{-1}]$	$\nu_{\sigma} [\text{cm}^{-1}]$
(CH ₃) ₃ ¹⁴ N · HF	2.8851(16)	2.5863(6)	38.3	208
(CH ₃) ₃ ¹⁵ N · HF	2.8914(16)	2.5867(6)	36.8	204
(CH ₃) ₃ ¹⁵ N · DF	2.8505(16)	2.5890(8)	38.2	205

^a) $\alpha = 12(1)^{\circ}$, $\beta = 14(1)^{\circ}$ assumed.



Legon, A.C., Rego, C.A.: Chem. Phys. Lett. **157** (1989) 243.