

1429
MW

C₃H₁₀I_N

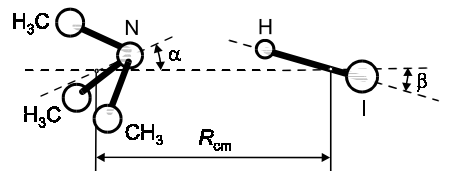
Trimethylamine – hydrogen iodide (1/1)
(weakly bound complex)

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

Molecule	$r_0(R_{\text{cm}})$ [Å]	$r_0(\text{N}\cdots\text{I})$ [Å]	k_σ [N m ⁻¹]	ν_σ [cm ⁻¹]
(CH ₃) ₃ ¹⁴ N · HI	3.5097(10)	3.1879(17)	66.5	167.0
(CH ₃) ₃ ¹⁴ N · DI	3.4865(13)	3.1896(17)	64.9	164.8

The angles $\alpha_{\text{av}} = 5(5)^\circ$ and $\beta_{\text{av}} = 0^\circ$ were assumed.

(CH₃)₃NH⁺...I⁻ is the appropriate description for the dimer.



Ligon, A.C., Rego, C.A.: J. Chem. Phys. **99** (1993) 1463.