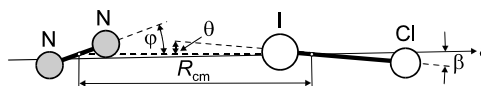


138 MW	ClIN ₂	Iodine chloride – dinitrogen (1/1) (weakly bound complex)	C _{∞v} (effective symmetry class) (large-amplitude motion) ICl · N ₂				
				r ₀ Å		θ ₀ deg	
				R _{cm} 4.2316(16) ^{a)}		β _{av} ^{b)} 5.0 ^{c)}	
				4.2538(16) ^{d)}		θ _{av} ^{b)} 5.0 ^{c)}	
				N...I 3.180(2)		φ _{av} ^{b)} 15 ^{c)}	

The observed spectra were interpreted on the basis of a linear equilibrium geometry with the weak bond formed between N and I.

The intermolecular stretching force constant k_{σ} is 5.37 N m^{-1} .



^{a)} For $^{15}\text{N}_2 \cdot \text{I}^{35}\text{Cl}$.

^{b)} Average angle. See figure for the definition.

^{c)} Assumed.

^{d)} For $^{15}\text{N}_2 \cdot \text{I}^{37}\text{Cl}$.

Davey, J.B., Legon, A.C., Wacławik, E.R.: J. Mol. Struct. **500** (2000) 403.