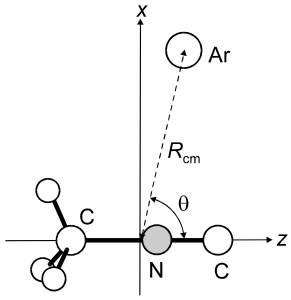
231 **C_2H_3ArN** **Methyl isocyanide – argon (1/1)** **C_s**
MW Isocyanomethane – argon (1/1) (effective symmetry class)
(weakly bound complex) (large-amplitude motion)
$H_3C–N=C \cdot Ar$

R_0	Å [a])	
R_{cm}	3.643(5)	
	set I [b])	set II [b])
N...Ar	3.63(1)	3.67(1)
H...Ar	3.27(2)	2.83(2)

θ_0	deg [a])	
	set I [b])	set II [b])
θ [c])	83.3(10)	96.7(10)



There appears to be almost free internal rotation of the methyl isocyanide molecule about its symmetry axis in the complex. The intermolecular stretching force constant k_σ is 1.96 N m^{-1}.

[a]) Uncertainties were not estimated in the original paper.
[b]) Two possible sets of solutions.
[c]) See figure for the definition.

Blanco, S., Lister, D.G., Legon, A.C., Rego, C.A.: J. Chem. Soc., Faraday Trans. **93** (1997) 1287.