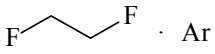
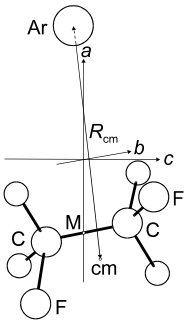
249 **$C_2H_4ArF_2$** **1,2-Difluoroethane – argon (1/1)** **C_1**
MW (weakly bound complex) (large-amplitude motion)



r_0	Å [a])
R_{cm}	3.968(5)

θ_0	deg [a])
α [b])	65.04(50)
γ [c])	99.65(50)



1,2-Difluoroethane is in the *gauche* conformation, and the Ar atom is in a position stabilized by the interaction with one F and two C atoms. The intermolecular stretching force constant is 1.64 N m^{-1}.

[a]) Uncertainties were not estimated in the original paper.
[b]) Angle between Ar...cm axis (cm is the center of mass of difluoroethane) and the line joining cm to the medium point of the C–C bond (M).
[c]) Dihedral angle Ar...cm…M–C.

Melandri, S., Velino, B., Favero, P.G., Dell'Erba, A., Caminati, W.: Chem. Phys. Lett. **321** (2000) 31.