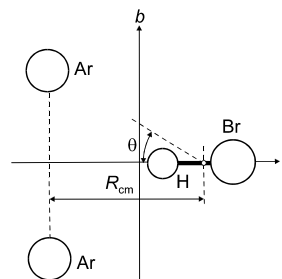


40
MW**Ar₂BrH****Hydrogen bromide – argon (1/2)**
(weakly bound complex)**C_{2v}**
(large-amplitude motion)
(effective symmetry class)
HBr · 2Ar

r_0	Å ^{a)}	θ_0	deg ^{b)}
Ar...Br	4.165(2)	θ_b ^{c)}	29.749(20)
Ar...Ar	3.833(2)	θ_c ^{c)}	28.447(20)
		γ ^{d)}	38.220(20)

r_z ^{c)}	Å ^{a)}
Ar...Br	4.166(2)
Ar...Ar	3.840(2)
R_{cm}	3.679(1)

^{a)} Uncertainties were not estimated in the original paper.^{b)} Uncertainties reported in the original paper are multiplied by ten.^{c)} See figure for the definition. These are effective values derived from the nuclear quadrupole coupling constants of Ar₂H⁷⁹Br.^{d)} Angle between the χ tensor principal axis of the Br atom in HBr and the *a* inertial axis.^{e)} From experimental moments of inertia together with calculated vibration-rotation inertial contributions.Kisiel, Z., Pietrewicz, B.A., Pszczółkowski, L.: J. Chem. Phys. **117** (2002) 8248.