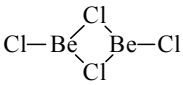


Structure Data of Free Polyatomic Molecules

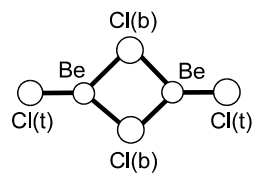
81 ED	Be₂Cl₄	Di-μ-chloro-bis[chloroberyllium(II)] Di- μ -chloro-dichlorodiberyllium	D_{2h} assumed
	r_g Be-Cl(t)^b Be-Cl(b)^c	θ_α Cl(t)-Be-Cl(b)	
	\AA^a 1.828(14) 1.968(20)	deg^a 135(5)	

According to the data of simultaneous ED and mass spectrometric experiments, the gas phase of the beryllium dichloride consists of monomeric (97.5 mol%) and dimeric (2.5 mol%) forms. The sample was vaporized at 547 K.

^a) 2.5 times the estimated standard errors including a systematic error.

^b) Difference between the $r_\alpha(\text{Be-Cl(t)})$ in the dimer and $r_\alpha(\text{Be-Cl})$ in the monomer was determined to be 0.000(13) Å.

^c) Difference between the $r_\alpha(\text{Be-Cl(b)})$ in the dimer and $r_\alpha(\text{Be-Cl})$ in the monomer was determined to be 0.17(2) Å.



Girichev, A.G., Giricheva, N.I., Vogt, N., Girichev, G.V., Vogt, J.: J. Mol. Struct. **384** (1996) 175.