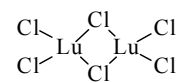


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ED**Cl₆Lu₂****Di- μ -chloro-bis[dichlorolutetium(III)]**
Di- μ -chloro-tetrachlorodilutetium**D_{2h}** assumed

r_α	Å ^{a)}	θ_α	deg ^{a)}
Lu–Cl(t) ^{b)}	2.366(5)	Cl(t)–Lu–Cl(t)	119(7)
Lu–Cl(b)	2.589(24)	Cl(b)–Lu–Cl(b)	84(2)

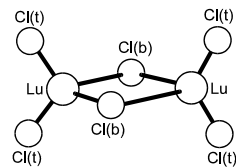


The vapor over lutetium trichloride was found to exist as a mixture of monomeric, LuCl₃, (91.6(12) mol%) and dimeric, Lu₂Cl₆, (8.4(12) mol%) forms.

The nozzle temperature was 1070(10) K.

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

^{b)} Assumed to be equal to $r_\alpha(\text{Lu–Cl})$ in the LuCl₃ molecule.



Giricheva, N.I., Girichev, G.V., Krasnov, A.V., Krasnova, O.G.: Zh. Strukt. Khim. **41** No.3 (2000) 480; J. Struct. Chem. (Engl. Transl.) **41** (2000) 388.