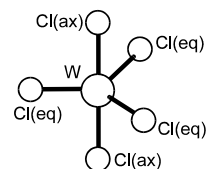


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ED Cl_5W **Tungsten pentachloride**
Tungsten(V) chloride
Pentachlorotungsten(V) D_{3h}
 WCl_5

r_a	\AA^a
W–Cl (mean)	2.261(2)
W–Cl(eq)	2.241(5)
W–Cl(ax)	2.291(4)
$\Delta(\text{W–Cl})^b$	0.051(8)



Molecular models with C_{2v} and D_{3h} symmetry were tested in the ED analysis, and the latter was preferred. The authors suggested that the dynamic or static Jahn-Teller distortion from D_{3h} symmetry could be quenched by strong spin-orbit coupling. The nozzle temperature was 207(7) °C.

^a) Twice the estimated standard errors including a systematic error.

^b) $[\text{W–Cl(ax)}] - [\text{W–Cl(eq)}]$.

Faegri, K., Haaland, A., Martinsen, K.-G., Strand, T.G., Volden, H.V., Swang, O., Anderson, C., Persson, C., Bogdanovic, S., Herrmann, W.A.: J. Chem. Soc., Dalton. Trans. (1997) 1013.

Replaces [II/25A\(2, 416\)](#)