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ED**Cl₄HfO₁₆****Tetrakis(perchlorato- κ O, κ O')hafnium(IV)**
Hafnium(IV) perchlorate**D₂**
Hf(ClO₄)₄

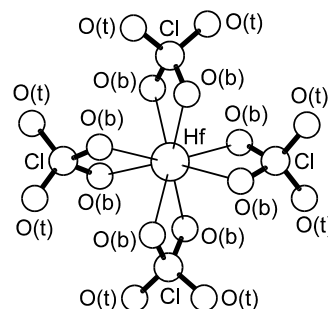
r_a	\AA^a	θ_a	deg ^{a)}
Hf...Cl	2.843(2)	O(b)–Hf...Cl	30.7(1)
Hf–O(b)	2.196(3)	O(b)–Cl=O(t)	109.6(3)
Cl=O(t)	1.399(2)	τ^b	36.0(8)
Cl–O(b)	1.501(2)	φ^c	7.4(3)

The HfO₈ coordination polyhedron has the form of a square antiprism with D₄ symmetry. The ClO₄ fragment has the form of a distorted tetrahedron. The nozzle was at 80(10) °C.

^{a)} Estimated standard errors.

^{b)} Torsional angle of O(b)₄ squares relative to each other, $\tau = 0^\circ$ for the square prism configuration.

^{c)} Angle of the deviation of the O(b)ClO(b) plane from the O(b)HfO(b) plane. This deviation of the ring from planarity could be ascribed to the shrinkage effect.



Lapshina, S.B., Ermolaeva, L.I., Girichev, G.V., Spiridonov, V.P.: Zh. Strukt. Khim. **37** No.3 (1996) 487; J. Struct. Chem. (Engl. Transl.) **37** (1996) 425.