

282	HfN₄O₁₂	Hafnium tetranitrate	D₄ assumed
ED		Hafnium(IV) nitrate	Hf(NO ₃) ₄

r_a	Å ^{a)}	θ_a	deg ^{a)}
Hf...N	2.648(4)	O(b)–Hf...N	29.0(6)
Hf–O(b)	2.179(3)	O(b)–N–O(t)	125.1(2)
N–O(t)	1.180(3)	N...Hf...N	180.0 ^{b)}
N–O(b)	1.290(3)	τ^c	28.6(11)
		φ^d	0.0(6)

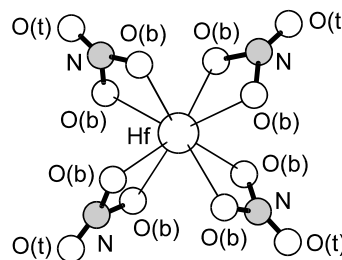
Local C_{2v} symmetry was assumed for the NO₃ group.
The temperature of the measurements was 440(20) K.

^{a)} Estimated standard errors.

^{b)} Assumed.

^{c)} Torsional angle of the NO₃ group around the Hf...N axis,
 $\tau = 0^\circ$ when the O(b)...O(b) direction is parallel to the C₄ axis.

^{d)} Dihedral angle between the O(b)HfO(b) and O(b)NO(b) planes.



Lapshina, S.B., Girichev, G.V., Pelipets, O.V., Ermolaeva, L.I., Spiridonov, V.P.,
Golubinskii, A.V.: Zh. Neorg. Khim. **44** No.8 (1999) 1248; Russ. J. Inorg. Chem.
(Engl. Transl.) **44** (1999) 1176.