

315
ED $\text{N}_4\text{O}_{12}\text{Ti}$ **Titanium tetranitrate**

Titanium(IV) nitrate

essentially D_4 $\text{Ti}(\text{NO}_3)_4$

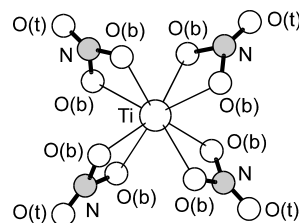
r_a	\AA^a	θ_a	deg^a
Ti...N	2.502(5)	O(b)–Ti...N	27.4(3)
Ti–O(b)	2.120(3)	O(b)–N–O(t)	122.6(6)
N–O(t)	1.170(7)	N...Ti...N	174.4(5)
N–O(b)	1.269(2)	τ^b	25.4(10)
		φ^c	3.1(3)

Local C_{2v} symmetry was assumed for the NO_3 group.
The temperature of the measurements was 358(10) K.

^a) Estimated standard errors.

^b) Torsional angle of the NO_3 group around the Ti...N axis,
 $\tau = 0^\circ$ when the O(b)...O(b) direction is parallel to the C_4 axis.

^c) Dihedral angle between the O(b)TiO(b) and O(b)NO(b) planes.



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