

NbF₄



NbF₄

1971

TaF₄

NbF₃

TaF₃ (19)

(38153) Thermodynamic properties of niobium and tantalum fluorides at high temperatures. II. Tetrafluorides and tri-fluorides. Galkin, N. P.; Tumanov, Yu. N.; Korobtsev, V. P.; Batarev, G. A.; Khokhlov, V. A.; Pavlov, A. A. (USSR). *Zh. Fiz. Khim.* 1971, 45(10), 2695 (Russ). Addnl. data are available from a depository whose address is cited in the original document. A regular tetrahedron having Nb or Ta atoms in the center is the most probable form of NbF₄ and TaF₄ mols. The NbF₃ and TaF₃ mols. are in the form of a trigonal pyramide with the Nb or Ta atoms at the top. Calcn. of the temp. dependences of the reduced thermodynamic potentials and enthalpy confirmed that NbF₄, TaF₄, NbF₃ and TaF₃ are stable up to 3600°K.

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