



>>Entry Name: Thulium(III) fluoride (TmF₃)

CAS Registry Number: 13760-79-7

TmF₃

Molecular Formula: F₃Tm

Molecular Weight: 225.929

Accurate Mass: 225.929421

Percentage Composition: F 25.23%; Tm 74.77%

Source/Synthesis: Pptd. from soln. as hydrate

Physical Description: White solid

Melting Point: Mp 1158°

Solubility: Insol. H₂O

Aldrich: 43214-8

References:

Zalkin, A. *et al.*, *J.A.C.S.*, 1953, **75**, 2453, (*cryst struct, synth*)

Thoma, R.E. *et al.*, *Inorg. Chem.*, 1966, **5**, 1937, (*struct*)

Peterson, J.R. *et al.*, *J. Inorg. Nucl. Chem.*, 1968, **30**, 1775, (*cryst struct*)

Haschke, J.M., *J. Solid State Chem.*, 1975, **12**, 115, (*synth*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **1**, 254, (*synth*)

Gmelin Handbook Inorg. Chem., Syst. No. 39, Suppl., 1976, **C3**, 227, (*rev*)

Greis, O. *et al.*, *Handbook on the Physics and Chemistry of Rare Earths*, 1982, **5**, 387, (*rev*)

Greis, O. *et al.*, *Thermochim. Acta*, 1985, **87**, 145, (*dta*)

Uwamino, Y. *et al.*, *Bull. Chem. Soc. Jpn.*, 1986, **59**, 2263, (*pe*)