



>>Entry Name: Terbium(III) fluoride (TbF₃)

CAS Registry Number: 13708-63-9

TbF₃

Molecular Formula: F₃Tb

Molecular Weight: 215.92

Accurate Mass: 215.920551

Percentage Composition: F 26.40%; Tb 73.60%

Source/Synthesis: Pptd. from soln. as hydrate

Physical Description: White solid

Melting Point: Mp 1172° (1177°)

Boiling Point: Bp 2280° (?)

Solubility: Insol. H₂O

Aldrich: 43206-7

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**, 219, (*rev*)
Greis, O. *et al.*, *Handbook on the Physics and Chemistry of Rare Earths*, 1982, **5**, 387, (*rev*)
Mioduski, T. *et al.*, *Solubility Data Ser.*, 1985, **22**, 270
Greis, O. *et al.*, *Thermochim. Acta*, 1985, **87**, 145, (*dta*)
Uwamino, Y. *et al.*, *Bull. Chem. Soc. Jpn.*, 1986, **59**, 2263, (*pe*)