



>>Entry Name: Dysprosium(III) fluoride (DyF₃)

CAS Registry Number: 13569-80-7

Type of Compound Code(s): ND0325

DyF₃

Molecular Formula: DyF₃

Molecular Weight: 219.495

Accurate Mass: 220.92438

Percentage Composition: Dy 74.03%; F 25.97%

General Statement: Isostructural with YF₃

Source/Synthesis: Pptd. from soln. as hydrate

Physical Description: Light green solid

Melting Point: Mp 1154° (1157°)

Boiling Point: Bp 2200°

Solubility: Insol. H₂O

Aldrich: 37258-7

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**, 224, (*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**, 285

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

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