



>>Entry Name: Neodymium(III) fluoride (NdF₃)

CAS Registry Number: 13709-42-7

NdF₃

Molecular Formula: F₃Nd

Molecular Weight: 201.235

Accurate Mass: 198.902928

Percentage Composition: F 28.32%; Nd 71.68%

Source/Synthesis: Pptd. from soln. as hydrate

Physical Description: Lilac (violet) solid

Melting Point: Mp 1410° (1377°, 1374°)

Boiling Point: Bp 2300°

Solubility: Insol. H₂O

Aldrich: 30916-8

References:

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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**, 190, (*rev, bibl*)

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**, 146

Greis, O., *Thermochim. Acta*, 1985, **87**, 245, (*dta*)

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