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>>Entry Name: Scandium(III) fluoride (ScF<sub>3</sub>)

Synonym(s): Scandium trifluoride

CAS Registry Number: 13709-47-2

ScF<sub>3</sub>

Molecular Formula: F<sub>3</sub>Sc

Molecular Weight: 101.951

Accurate Mass: 101.951123

Percentage Composition: F 55.90%; Sc 44.10%

Physical Description: White solid

Melting Point: Mp 1552° (1515°)

Boiling Point: Bp 1607°

Other Data: In matrices forms planar ScF<sub>3</sub> molecules, in contradistinction to lanthanides

Aldrich: 43210-5

#### References:

Nowacki, W., *Z. Kristallogr.*, 1939, **101**, 273, (*cryst struct*)

Jack, K.H., *Acta Cryst.*, 1957, **10**, 780, (*cryst struct*)

Akishin, P.A. *et al.*, *Zh. Strukt. Khim.*, 1961, **2**, 3; *J. Struct. Chem. (Engl. Transl.)*, 1961, **2**, 1, (*cryst struct*)

Thoma, R.E. *et al.*, *Inorg. Chem.*, 1966, **5**, 1933, (*synth*)

Ippolitov, E.G. *et al.*, *Zh. Neorg. Khim.*, 1970, **15**, 1466; *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1970, **15**, 753, (*synth*)

Hauge, R.H. *et al.*, *J. Less-Common Met.*, 1971, **23**, 259, (*ir*)

Hastie, J.W. *et al.*, *J. Less-Common Met.*, 1973, **39**, 309, (*ir*)

Spedding, F.H. *et al.*, *J. Chem. Phys.*, 1974, **60**, 1578