



>>Entry Name: Scandium(III) oxide (Sc₂O₃)

Synonym(s): Scandia. Discandium trioxide. Scandium sesquioxide

CAS Registry Number: 12060-08-1

Extra CAS Registry Numbers(s): 37200-34-3

Sc₂O₃

Molecular Formula: O₃Sc₂

Molecular Weight: 137.91

Accurate Mass: 137.896573

Percentage Composition: O 34.80%; Sc 65.20%

Physical Description: White solid

Melting Point: Mp 2403°

Solubility: Insol. H₂O; sol. hot acid

Aldrich: 29402-0

Fluka: 84630

Sigma: S1625

References:

Geller, S. *et al.*, *Z. Kristallogr.*, 1967, **124**, 136, (*cryst struct*)

Petru, F. *et al.*, *Coll. Czech. Chem. Comm.*, 1971, **36**, 3752, (*synth*)

Hajek, B. *et al.*, *J. Less-Common Met.*, 1977, **33**, 385, (*struct*)

Pokrovskii, B.I., *Acta Cryst. B*, 1978, **34**, 1051, (*struct*)

Dole, S.L., *Mater. Sci. Eng.*, 1978, **32**, 277, (*synth*)

Gouteron, J. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1979, **289**, 243, (*Raman*)