



>>Entry Name: Scandium(III) acetate

Synonym(s): Scandium triacetate

CAS Registry Number: 3804-23-7

Sc(OAc)₃

Molecular Formula: C₆H₉O₆Sc

Molecular Weight: 222.089

Accurate Mass: 221.995829

Percentage Composition: C 32.45%; H 4.08%; O 43.22%; Sc 20.24%

Physical Description: Colourless solid

Solubility: Sol. H₂O

Other Data: Dec. at >285°

>>Derivative: Monohydrate

Molecular Formula: C₆H₁₁O₇Sc

Molecular Weight: 240.105

Percentage Composition: C 30.01%; H 4.62%; O 46.64%; Sc 18.72%

Physical Description: Colourless cryst.

Other Data: Loses H₂O = 150°

References:

Sterba-Böhm, J.S. *et al.*, *Coll. Czech. Chem. Comm.*, 1935, **7**, 57, (*synth*)

Funk, H. *et al.*, *Z. Anorg. Allg. Chem.*, 1963, **325**, 67, (*synth*)

Komissarova, L.N. *et al.*, *Izv. Akad. Nauk SSSR, Neorg. Mater.*, 1968, **4**, 1094; *Inorg. Mater. (Engl. Transl.)*, 1968, **4**, 962, (*tga*)

Porai-Koshits, M.A. *et al.*, *Kristallografiya*, 1971, **16**, 1195; *Sov. Phys. Crystallogr. (Engl. Transl.)*, 1971, **16**, 1047, (*cryst struct*)

Smolyakova, K.E. *et al.*, *Tr. Tomsk. Gos. Univ.*, 1973, **237**, 143; *CA*, **80**, 59389, (*hydrate*)

Fuchs, R. *et al.*, *Z. Naturforsch., B*, 1984, **39**, 1662, (*synth, cryst struct*)