



>>Entry Name: Tin(IV) isopropoxide

Synonym(s): 2-Propanol tin(4+) salt, 9Cl. Tetraisopropoxytin

CAS Registry Number: 1184-61-8

$\text{Sn}[\text{OCH}(\text{CH}_3)_2]_4$

Molecular Formula: $\text{C}_{12}\text{H}_{28}\text{O}_4\text{Sn}$

Molecular Weight: 355.061

Accurate Mass: 354.10096

Percentage Composition: C 40.59%; H 7.95%; O 18.02%; Sn 33.43%

Source/Synthesis: Prepd. by reaction of Sn(IV) *tert*-pentyloxiide with 2-propanol

Physical Description: Waxy solid

Aldrich: 47076-7

Other: Gelest SNT7278

>>Derivative: 2-Propanol complex (dimeric)

Synonym(s): Bis(2-propanol)bis[μ -(2-propanolato)]hexakis(2-propanolato)ditin

CAS Registry Number: 136674-26-5

Molecular Formula: $\text{C}_{30}\text{H}_{72}\text{O}_{10}\text{Sn}_2$

Molecular Weight: 830.313

Accurate Mass: 828.31695

Percentage Composition: C 43.40%; H 8.74%; O 19.27%; Sn 28.59%

Source/Synthesis: Synth. from SnCl_4 + NaOPrⁱ

Physical Description: Colourless moisture-sensitive cryst.

Solubility: Sol. 2-propanol

Other Data: Cryst. release 2-propanol in dry air. Struct. comprises bi-octahedral $[\text{Sn}_2\text{O}_{10}]$ centre

References:

Bradley, D.C. *et al.*, *J.C.S.*, 1957, 4775, (*synth*)

Maire, J.C. *et al.*, *C. R. Hebd. Seances Acad. Sci.*, 1960, **251**, 1292, (*synth*)

Reuter, H. *et al.*, *Z. Anorg. Allg. Chem.*, 1991, **598/599**, 259, (*synth, cryst struct, solvate*)