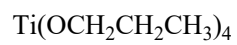




>>Entry Name: Titanium propoxide

Synonym(s): 1-Propanol titanium(4+) salt, 9Cl. Propyl titanate(IV). Tetrapropoxytitanium(IV)

CAS Registry Number: 3087-37-4



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

Molecular Weight: 284.231

Accurate Mass: 284.146707

Percentage Composition: C 50.71%; H 9.93%; O 22.52%; Ti 16.85%

Source/Synthesis: Synth. from TiCl_4 + 1-propanol

Use/Importance: Catalyst for polym. of alkenes

Physical Description: Liq.

Boiling Point: Bp₅ 137°. Bp₃ 170°

Density: d_4^{25} 1

Refractive Index: n_D^{35} 1.4803

Other: Gelest AKT885

References:

Speer, R.J., *J.O.C.*, 1949, **14**, 655-659, (*synth*)

Caughlan, C.N. *et al.*, *J.A.C.S.*, 1951, **73**, 5652-5654, (*synth*)

Bradley, D.C. *et al.*, *J.C.S.(A)*, 1968, 1316-1319, (*pmr*)

Holloway, C.E. *et al.*, *J.C.S. Dalton*, 1976, 1050-1054, (*cmr*)