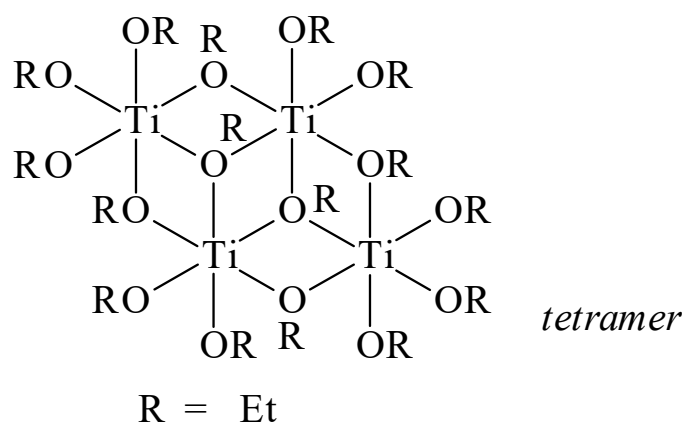




>>Entry Name: Tetraethoxytitanium(IV)

Synonym(s): Titanium(IV) ethoxide. Titanium tetraethoxide. Ethyl titanate(IV)



CAS Registry Number: 3087-36-3

Molecular Formula: $C_8H_{20}O_4Ti$

Molecular Weight: 228.124

Accurate Mass: 228.084107

Percentage Composition: C 42.12%; H 8.84%; O 28.05%; Ti 20.99%

Source/Synthesis: Synth. from $TiCl_4 + NaOEt$ or from $TiCl_4 + EtOH + NH_3$ in C_6H_6 and purifn. by dist.

Use/Importance: Commercially available. Can be used in alkene polym. catalysts and in formation of TiO_2 thin film capacitors

Boiling Point: Bp_5 133°. $Bp_{0.1}$ 103°

Hazard & Toxicity: Flammable, fl.p. 28°

Aldrich: 24475-9

Fluka: 86712

Sigma: T6158

Other: Gelest: AKT860

>>Derivative: Tetramer

Synonym(s): Hexadecaethoxytetratitanium(IV)

Molecular Formula: $C_{32}H_{80}O_{16}Ti_4$

Molecular Weight: 912.494

Accurate Mass: 912.336428

Percentage Composition: C 42.12%; H 8.84%; O 28.05%; Ti 20.99%

Physical Description: White solid, but usually colourless oily liq. at r.t. Readily hydrol.

Solubility: Sol. C_6H_6

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