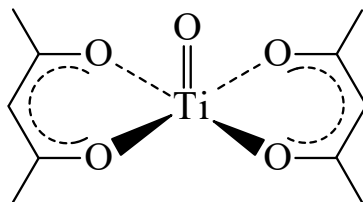




>>Entry Name: Oxobis(2,4-pentanedionato-*O,O'*)titanium(IV), 11Cl

Synonym(s): Bis(acetylacetonato)oxotitanium(IV). Titanyl acetylacetonate. $\text{TiO}(\text{acac})_2$



CAS Registry Number: 14024-64-7

Molecular Formula: $\text{C}_{10}\text{H}_{14}\text{O}_5\text{Ti}$

Molecular Weight: 262.098

Accurate Mass: 262.032072

Percentage Composition: C 45.83%; H 5.38%; O 30.52%; Ti 18.27%

Source/Synthesis: Synth. by atmospheric oxidn. of $\text{Ti}(\text{acac})_3$ or by electrochemical oxidn. of Ti anodes in the presence of acac and O_2

Use/Importance: Widely used as an epoxidation catalyst

Melting Point: Mp 184 dec.°

Solubility: Sol. C_6H_6 . Insol. petrol

Aldrich: 33083-3

Other: Gelest AKT883

>>Derivative: Dimer

>>Derivative: Homopolymer

CAS Registry Number: 51866-75-2

Source/Synthesis: Synth. either from $(\text{RO})_2\text{Ti}(\text{acac})_2$ in weakly acidic H_2O or from a soln. of a Ti salt + Hacac in H_2O at pH 2-7

Use/Importance: Can be used as a crosslinking agent

References:

Cox, M. *et al.*, *J.C.S.*, 1965, 2840, (*synth, ir*)

Japan. Pat., 1974, 74 07 226; *CA*, **81**, 26524w, (*synth, homopolymer*)

Japan. Pat., 1974, 74 07 227; *CA*, **81**, 26523v, (*synth, homopolymer, use*)

Grobe, J. *et al.*, *Z. Naturforsch., B*, 1984, **39**, 808, (*electrochem synth*)

Bortolini, O. *et al.*, *J. Mol. Catal.*, 1985, **33**, 241, (*use*)

U.S. Pat., 1985, 4 560 716; *CA*, **105**, 61753f, (*use*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, BGQ750