



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

Synonym(s): Bis(acetylacetonato-*O,O'*)dibutoxytitanium(IV)

CAS Registry Number: 16902-59-3

Related CAS Registry Numbers(s): 80891-16-3 90078-04-9

As Diethoxybis(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)titanium(IV), HWF14-A with
 $R^1 = \text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$, $R^2 = \text{CH}_3$

Molecular Formula: $\text{C}_{18}\text{H}_{32}\text{O}_6\text{Ti}$

Molecular Weight: 392.327

Accurate Mass: 392.167837

Percentage Composition: C 55.11%; H 8.22%; O 24.47%; Ti 12.20%

Use/Importance: Catalyst component with $\text{Ru}_3(\text{CO})_{12}$ for synthesis gas reactions; catalyst for cross-linking reactions and forms copolymers with linear polyethers and with polysiloxanes

Hazard & Toxicity: Fl. p. 33°

Other: Gelest AKT853

>>Variant: *cis*-form

CAS Registry Number: 23041-94-3

Molecular Formula: $\text{C}_{18}\text{H}_{32}\text{O}_6\text{Ti}$

Molecular Weight: 392.327

Accurate Mass: 392.167837

Percentage Composition: C 55.11%; H 8.22%; O 24.47%; Ti 12.20%

Source/Synthesis: Synth. by reaction of $\text{Ti}(\text{OCH}_2\text{CH}_2\text{CH}_2\text{CH}_3)_4$ + 2,4-pentanedione

Physical Description: Light yellow liq.

Solubility: Sol. CS_2 , CCl_4 , C_6H_6

References:

Yamamoto, A. *et al.*, *J.A.C.S.*, 1957, **79**, 4344, (*synth, ir*)

Bradley, D.C. *et al.*, *J.C.S.(A)*, 1969, 282, (*ir, pmr, props*)

Beridge, A.L. *et al.*, *CA*, 1982, **96**, 86062p, (*use*)

Khananashvili, M.B. *et al.*, *Acta Polym.*, 1984, **35**, 181, (*deriv*)

Japan. Pat., 1984, 59 46 653; *CA*, **101**, 201465h, (*use*)

Knifton, J.F. *et al.*, *Organometallics*, 1984, **3**, 62, (*use*)

Japan. Pat., 1986, 61 166 862; *CA*, **105**, 210557z, (*use*)