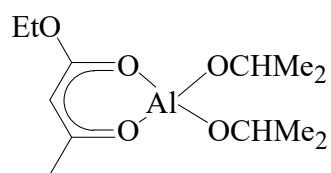




>>Entry Name: [Ethyl 3-(oxo-*O*)butanoato-*O'*]bis(2-propanolato)aluminium

Synonym(s): Diisopropoxyaluminium ethyl acetoacetate



CAS Registry Number: 14782-75-3

Molecular Formula: C₁₂H₂₃AlO₅

Molecular Weight: 274.292

Accurate Mass: 274.136089

Percentage Composition: C 52.55%; H 8.45%; Al 9.84%; O 29.16%

General Statement: Monomeric in C₆H₆

Source/Synthesis: Synth. from Al(OPrⁱ)₃ + ethyl acetoacetate in refluxing C₆H₆

Use/Importance: MOCVD precursor. Homogeneous catalyst

Physical Description: Colourless viscous liq.

Boiling Point: Bp₁₀ 205°

UV: [neutral] λ_{max} 267 () (CHCl₃)

References:

Mehrotra, R.K. *et al.*, *Can. J. Chem.*, 1961, **39**, 795-798, (*synth*)

Hudson, M.D. *et al.*, *J. Mater. Res.*, 1988, **3**, 1151-1157, (*synth, uv, cvd*)

Love, D.J., *Paint Resin*, 1989, **59**, 19-22; *CA*, **113**, 154307u, (*use*)

Yoshimatsu, H. *et al.*, *J. Mater. Sci.*, 1996, **31**, 4975-4980, (*use*)