



>>Entry Name: **Tris(2,4-pentanedionato-*O,O'*)aluminium**

Synonym(s): Tris(acetylacetonato)aluminium. Aluminium acetylacetonate

CAS Registry Number: 13963-57-0

As Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)aluminium, **JGT96-G** with
 $R^1 = R^2 = \text{Me}$

Molecular Formula: $\text{C}_{15}\text{H}_{21}\text{AlO}_6$

Molecular Weight: 324.309

Accurate Mass: 324.115354

Percentage Composition: C 55.55%; H 6.53%; Al 8.32%; O 29.60%

Source/Synthesis: Synth. from AlCl_3 or $\text{Al}_2(\text{SO}_4)_3$ + Hacac. $\log \beta_1$ 8.2, $\log \beta_2$ 15.7, $\log \beta_3$ 21.4, ($I = 0.1$)

Physical Description: Pale yellow prisms (hexane)

Melting Point: Mp 194.6°

Boiling Point: Bp 314-316°. Bp₁ 156°

Solubility: Sol. C_6H_6 ; spar. sol. hexane; insol. H_2O

Other Data: $\Delta H_f^\circ -1793.3 \text{ kJ mol}^{-1}$

Hazard & Toxicity: LD₅₀ (mus, ivn) 178 mg/kg

Aldrich: 20824-8

Fluka: 6160

Sigma: A7955

Other: Gelest AKA080

References:

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