



>>Entry Name: Dihydroxy(octadecanoato-*O*)aluminium, 9CI

Synonym(s): Dihydroxyaluminium stearate. Aluminium monostearate, JAN, USAN. Dihydroxy(stearato)aluminium. Aluminium dihydroxide stearate

CAS Registry Number: 7047-84-9

$[\text{H}_3\text{C}(\text{CH}_2)_{16}\text{COO}]\text{Al}(\text{OH})_2$

Molecular Formula: $\text{C}_{18}\text{H}_{37}\text{AlO}_4$

Molecular Weight: 344.469

Accurate Mass: 344.250724

Percentage Composition: C 62.76%; H 10.83%; Al 7.83%; O 18.58%

Source/Synthesis: Synth. from $\text{ClAl}(\text{OH})_2 + \text{Na stearate}$

Use/Importance: Thickener for paints, inks, oils, greases; lubricant in cosmetics; water repellent

Physical Description: White to yellowish-white powder

Melting Point: Mp 155°

Solubility: Insol. H_2O

References:

Vold, R.D. *et al.*, *Ind. Eng. Chem.*, 1949, **41**, 2311-2320, (*synth*)

Porter, C.C. *et al.*, *Proc. Soc. Exp. Biol. Med.*, 1967, **124**, 500-503, (*synth*)

J. Am. Coll. Toxicol., 1982, **1**, 143-177, (*props, tox, rev*)

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