



>>Entry Name: Aluminium tartrate

Synonym(s): 2,3-Dihydroxybutanedioic acid aluminium salt (3:2), 13CI

CAS Registry Number: 815-78-1

$\text{Al}_2[\text{OOCCH}(\text{OH})\text{CH}(\text{OH})\text{COO}]_3$

Molecular Formula: $\text{C}_{12}\text{H}_{12}\text{Al}_2\text{O}_{18}$

Molecular Weight: 498.179

Accurate Mass: 497.965448

Percentage Composition: C 28.93%; H 2.43%; Al 10.83%; O 57.81%

General Statement: Exists as hydroxy-carboxylate chelate

>>Derivative: Tetrahydrate

CAS Registry Number: 152541-21-4

Molecular Formula: $\text{C}_{12}\text{H}_{20}\text{Al}_2\text{O}_{22}$

Molecular Weight: 570.24

Percentage Composition: C 25.28%; H 3.54%; Al 9.46%; O 61.73%

Source/Synthesis: Synth. by addn. of L-tartaric acid to a hot aq. suspension of freshly prep. $\text{Al}(\text{OH})_3$

Physical Description: White microcryst. powder

Solubility: Sol. H_2O

References:

Sheikh-Osman, A.A. *et al.*, *J.C.S. Dalton*, 1993, 3229, (*synth, ir, pmr*)