



>>Entry Name: Aluminium formate

Synonym(s): Tris(formato)aluminium. Normal aluminium formate

CAS Registry Number: 7360-53-4

Related CAS Registry Numbers(s): 22918-74-7

$\text{Al}(\text{OOCH})_3$

Molecular Formula: $\text{C}_3\text{H}_3\text{AlO}_6$

Molecular Weight: 162.035

Accurate Mass: 161.974504

Percentage Composition: C 22.24%; H 1.87%; Al 16.65%; O 59.24%

Source/Synthesis: Synth. from $\text{Al}(\text{OOCH})_2\text{OH}$ + excess HCOOH

Use/Importance: Binder and mordant. Used in waterproofing textiles, paper

Physical Description: Amorphous white cryst. + $3\text{H}_2\text{O}$ (aq. HCOOH)

References:

Donaldson, J.D. *et al.*, *Spectrochim. Acta*, 1964, **20**, 847, (synth, ir)

Kirk-Othmer Encycl. Chem. Technol., 3rd edn., Wiley, 1978, **2**, 202

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, AHB375