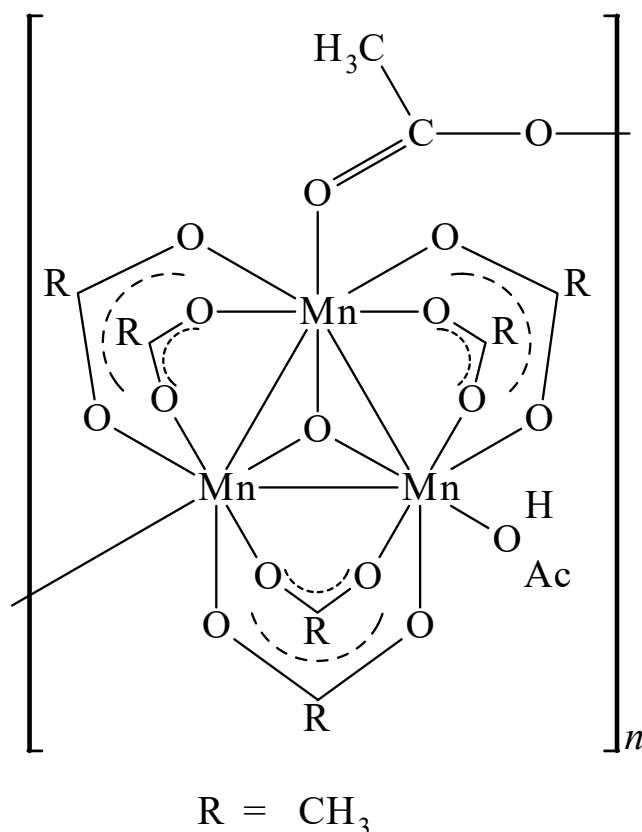




>>Entry Name: Hexakis(μ -acetato)(acetato)(acetic acid)- μ_3 -oxotrimanganese

Synonym(s): Manganese triacetate. Manganese(III) acetate ($\text{Mn}(\text{OAc})_3$) (incorr.), 8Cl. Manganic acetate



Related CAS Registry Numbers(s): 2180-18-9 105057-31-6 177650-41-8

Extra CAS Registry Numbers(s): 993-02-2

Molecular Formula: $\text{C}_{16}\text{H}_{25}\text{Mn}_3\text{O}_{17}$

Molecular Weight: 654.177

Accurate Mass: 653.923321

Percentage Composition: C 29.38%; H 3.85%; Mn 25.19%; O 41.58%

Source/Synthesis: Synth. from $\text{Mn}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ and Ac_2O or from $\text{Mn}(\text{OAc})_2$ and KMnO_4 in AcOH

Use/Importance: Starting material for other Mn(III) compds. Oxidising agent in organic chem. Regenerates carbonyl compds. from oximes

Physical Description: Brown cryst. (AcOH); hydrol. by H_2O

Solubility: Sol. EtOH, Py, warm CHCl_3

Other Data: $\mu_{\text{eff}} = 4.37\mu_{\text{B}}$ (294K)

>>Derivative: Dihydrate

CAS Registry Number: 19513-05-4

Source/Synthesis: Synth. from $\text{Mn}(\text{OAc})_2 \cdot 4\text{H}_2\text{O}$ and KMnO_4 in AcOH

Use/Importance: Oxidises aromatic hydrocarbons

Physical Description: Cinnamon-brown cryst. (AcOH)

Solubility: Sol. Et_2O , AcOH

Other Data: Dec. by cold H_2O . Struct. not known. $\mu_{\text{eff}} = 4.78\mu_{\text{B}}$ (292K)

Aldrich: 21588-0

Fluka: 63538

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