



>>Entry Name: Manganese(II) formate

CAS Registry Number: 3251-96-5

Mn(OOCH)₂

Molecular Formula: C₂H₂MnO₄

Molecular Weight: 144.973

Accurate Mass: 144.933357

Percentage Composition: C 16.57%; H 1.39%; Mn 37.90%; O 44.14%

Source/Synthesis: Synth. from the dihydrate at 100-120°

Physical Description: Forms [Mn(OOCH)₄]²⁽⁻⁾ with formate

Solubility: Sol. H₂O

Other Data: μ_{eff} = 5.71μ_B. Rehydrates in moist air, struct. contains octahedral Mn(II)

>>Derivative: Dihydrate

Synonym(s): Diaquabis(formato-*O*)manganese(II)

CAS Registry Number: 4247-36-3

Molecular Formula: C₂H₆MnO₆

Molecular Weight: 181.004

Accurate Mass: 180.954487

Percentage Composition: C 13.27%; H 3.34%; Mn 30.35%; O 53.04%

Source/Synthesis: Synth. from MnCO₃ and formic acid

Physical Description: Red cryst. (HCOOH aq.)

Other Data: Struct. contains MnO₆ and *trans*-MnO₂(OH₂)₄ octahedra. Canted antiferromagnetic arrangement below *T*_N. *T*_N -3.7K

References:

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