



>>Entry Name: Magnesium oxalate

Synonym(s): [Ethanedioato(2-)-O¹,O²]magnesium, 9CI

CAS Registry Number: 547-66-0

Mg(C₂O₄)

Molecular Formula: C₂MgO₄

Molecular Weight: 112.325

Accurate Mass: 111.964702

Percentage Composition: C 21.39%; Mg 21.64%; O 56.98%

>>Derivative: Dihydrate

CAS Registry Number: 6150-88-5

Molecular Formula: C₂H₄MgO₆

Molecular Weight: 148.355

Accurate Mass: 147.985832

Percentage Composition: C 16.19%; H 2.72%; Mg 16.38%; O 64.71%

Source/Synthesis: Synth. from Mg(OH)₂ or MgCO₃ with (COOH)₂, or by treating oxalates, in particular (NH₄)₂C₂O₄, with Mg salts

Physical Description: Cryst.

Solubility: Spar. sol. H₂O

Other Data: Loses H₂O at 150° with dec.

References:

Gmelin Handbook Inorg. Chem., Syst. No. 27, 1939, 340, (synth)

Walter-Levy, L. *et al.*, Bull. Soc. Chim. Fr., 1971, 757