



>>Entry Name: Zinc oxalate

Synonym(s): Ethanedioic acid, zinc salt (1:1), 9CI

CAS Registry Number: 547-68-2

$\text{Zn}(\text{C}_2\text{O}_4)$

Molecular Formula: $\text{C}_2\text{O}_4\text{Zn}$

Molecular Weight: 153.41

Accurate Mass: 151.908805

Percentage Composition: C 15.66%; O 41.72%; Zn 42.62%

Physical Description: White powder. Dimorphic

>>Derivative: Dihydrate

CAS Registry Number: 4255-07-6

Molecular Formula: $\text{C}_2\text{H}_4\text{O}_6\text{Zn}$

Molecular Weight: 189.44

Accurate Mass: 187.929935

Percentage Composition: C 12.68%; H 2.13%; O 50.67%; Zn 34.52%

Source/Synthesis: Prepd. from Zn salts + $(\text{NH}_4)_2\text{C}_2\text{O}_4$

Physical Description: Cryst.

Solubility: Prac. insol. H_2O

Other Data: Dec. on heating above 100°, forming eventually ZnO

References:

Chatterjee, K.P. *et al.*, *J. Phys. Chem.*, 1924, **28**, 1020, (*synth*)

Robin, J., *Bull. Soc. Chim. Fr.*, 1953, 1078, (*synth*)

Deyrieux, R. *et al.*, *Bull. Soc. Chim. Fr.*, 1973, 25, (*cryst struct, dihydrate*)

Nikonenko, E.A. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1982, **27**, 547, (*ir, uv*)

Bogdonov, V.S. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1983, **28**, 1736, (*polymorphs*)

Kondrashev, Yu.D. *et al.*, *Zh. Strukt. Khim.*, 1985, **26**, 90; *CA*, **102**, 195603d, (*cryst struct*)