



>>Entry Name: Zinc formate

CAS Registry Number: 557-41-5

Zn(OOCH)2

Molecular Formula: C₂H₂O₄Zn

Molecular Weight: 155.425

Accurate Mass: 153.924455

Percentage Composition: C 15.46%; H 1.30%; O 41.18%; Zn 42.07%

Use/Importance: Phenol-formaldehyde resin, trans-esterification and cross-linking catalyst. Used in paper coatings; pressure sensitive copying paper; wood preservative and in blowing agents

Physical Description: Cryst.

Other Data: Dec. to ZnO at >350°

>>Derivative: Dihydrate

CAS Registry Number: 5970-62-7

Molecular Formula: C₂H₆O₆Zn

Molecular Weight: 191.456

Accurate Mass: 189.945585

Percentage Composition: C 12.55%; H 3.16%; O 50.14%; Zn 34.15%

Physical Description: White monoclinic cryst.

Solubility: Sol. H₂O; insol. EtOH

Other Data: Loses 2H₂O at 140°. Isomorphous with Mg, Sr, Cd and Mn analogues

References:

Semenenko, K.N., *Zh. Neorg. Khim.*, 1957, **2**, 2115, (*synth, dihydrate*)

Kirk-Othmer Encycl. Chem. Technol., 2nd edn., Wiley, 1963, **22**, 604

Filipov, I. *et al.*, *Croat. Chem. Acta*, 1970, **42**, 541, (*stability const*)

Burger, N. *et al.*, *Z. Kristallogr., Kristallgeom., Kristallphys., Kristallchem.*, 1975, **145**, 346, (*cryst struct, dihydrate*)

Baraldi, P., *Spectrochim. Acta A*, 1979, **35**, 1003, (*ir, salt, dihydrate*)

Mu, J. *et al.*, *Thermochim. Acta*, 1981, **49**, 207, (*thermal anal, salt, dihydrate*)

Tewari, G.D. *et al.*, *Appl. Spectrosc.*, 1982, **36**, 441, (*ir, Raman, salt, dihydrate*)

Grigor'ev, A.I. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1985, **30**, 497, (*ir*)

Gorski, A. *et al.*, *J. Therm. Anal.*, 1987, **32**, 1243, (*thermal anal*)