



>>Entry Name: Zinc sulfate, JAN, USAN

ENTRY UNDER REVIEW

Synonym(s): Zincosite. Verazinc. Zincate. Zincomed

CAS Registry Number: 7733-02-0

Related CAS Registry Numbers(s): 80867-26-1

ZnSO_4

Molecular Formula: O_4SZn

Molecular Weight: 161.454

Accurate Mass: 159.880875

Percentage Composition: O 39.64%; S 19.86%; Zn 40.50%

Use/Importance: Catalyst for hydrogenation, polym. etc.; anticorrosion agent; used in air-fresheners; biocide, fungicide, antimicrobial agent in deodorants; in toothpastes, feed additive; fertiliser

Biological Use/Importance: Ophthalmic astringent (used to reduce corneal inflammation in conjunctivitis). Anticopper agent used for the treatment of Wilson's disease. Emetic

Physical Description: Colourless cryst.

Solubility: V. sol. H_2O ; sl. sol. EtOH; sol. MeOH

Other Data: Stable to 850° in presence of SO_3 ; otherwise dec. to ZnO at *ca.* 680° . Component of Phenylzin and Zincfrin

Hazard & Toxicity: Eye irritant

Fluka: 96507

>>Derivative: Monohydrate

CAS Registry Number: 7446-19-7

Physical Description: Cryst. (H_2O at $60\text{-}100^\circ$)

Other Data: Dehydrates at $225\text{-}235^\circ$

Aldrich: 31962-7

Fluka: 96495

>>Derivative: Hexahydrate

CAS Registry Number: 13986-24-8

Physical Description: Monoclinic cryst. (H_2O at $39\text{-}60^\circ$)

Other Data: Dehydrates to monohydrate

>>Derivative: Heptahydrate

CAS Registry Number: 7446-20-0

Physical Description: Orthorhombic cryst. (H_2O at $0\text{-}39^\circ$)

Melting Point: Mp 100°

Solubility: Insol. EtOH

Other Data: Dehydrates to hexahydrate at *ca.* 40° . Dec. $> 500^\circ$

Aldrich: 22137-6

Fluka: 96500

Sigma: Z1001

References: