



>>Entry Name: Zinc oxide, JAN, USAN

ENTRY UNDER REVIEW

Synonym(s): Zinc white. Philosopher's wool

CAS Registry Number: 1314-13-2

ZnO

Molecular Formula: OZn

Molecular Weight: 81.389

Accurate Mass: 79.92406

Percentage Composition: O 19.66%; Zn 80.34%

Source/Synthesis: Obt. from elements or as mineral

Use/Importance: Astringent. Used in dental cement; in ceramics, in skin ointments; in wood dressings; in sunscreen protection; catalyst, pigment in glasses

Physical Description: Hexagonal white cryst.; yellow above 25°

Melting Point: Mp 1975°

Boiling Point: Subl. 1720° (normal pressure)

Solubility: Spar. sol. H₂O (1.6 x 10⁻⁴ g per 100 cm³ at 29°); sol. dil. AcOH, mineral acids, NH₃

Other Data: Component of Wyanoids and Ziradryl. K_{sp} 2.2 x 10⁻¹⁷ at 25°

Hazard & Toxicity: OES: long-term 5 mg m⁻³ (fume); short-term 10 mg m⁻³ (fume). Occupational exposure to fume causes influenza-like illness ('metal fume fever'). Skin and eye irritant

Aldrich: 25575-0

Fluka: 96484

Sigma: Z1753

>>Variant: Mineral-form

Synonym(s): Zincite

CAS Registry Number: 20431-17-8

Molecular Formula: OZn

Molecular Weight: 81.389

Accurate Mass: 79.92406

Percentage Composition: O 19.66%; Zn 80.34%

Source/Synthesis: Occurs in Zn deposits in USA, Namibia and elsewhere

Physical Description: Deep yellow to dark red trigonal cryst.

References:

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