



>>Entry Name: Zinc carbonate (ZnCO₃)

ENTRY UNDER REVIEW

CAS Registry Number: 3486-35-9

ZnCO₃

Molecular Formula: CO₃Zn

Molecular Weight: 125.399

Accurate Mass: 123.91389

Percentage Composition: C 9.58%; O 38.28%; Zn 52.15%

Source/Synthesis: Mineral formed on zinc during atmospheric corrosion

Use/Importance: Used in deodorants; blowing agent; polym. catalyst; fireproofing agent; flame retardant; nutrient and feed supplement; filler and binder; pigment

Physical Description: Rhombohedral colourless cryst.

Solubility: Pract. insol. H₂O (5.7 x 10⁻⁵ g per 100 cm³)

Other Data: Dec. at 140°. Forms a basic salt on boiling in H₂O

>>Variant: Mineral-form

Synonym(s): Smithsonite

CAS Registry Number: 14476-25-6

Molecular Formula: CO₃Zn

Molecular Weight: 125.399

Accurate Mass: 123.91389

Percentage Composition: C 9.58%; O 38.28%; Zn 52.15%

Source/Synthesis: Secondary mineral, often found as grape-like clusters, or crystalline crusts. Widespread occurrence

Physical Description: Trigonal cryst., rarely colourless, ranges from bright apple green to deep pink purple

References:

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