



>>Entry Name: Zinc chromate (ZnCrO₄)

Synonym(s): Chromic acid (H₂CrO₄), zinc salt (1:1)

CAS Registry Number: 13530-65-9

ZnCrO₄

Molecular Formula: CrO₄Zn

Molecular Weight: 181.384

Accurate Mass: 179.849314

Percentage Composition: Cr 28.67%; O 35.28%; Zn 36.05%

Source/Synthesis: Synth. from ZnO and CrO₃ (1:1) and H₂O at 200°. Also from K₂Cr₂O₇ and Zn(OH)₂ at 270° in sealed tube

Use/Importance: Corrosion inhibiting pigment component of *Zinc Yellow*; cross-linking catalyst; hydrogenation catalyst; smoke inhibitor

Physical Description: Lemon-yellow prisms

Melting Point: Mp 316°

Solubility: Sol. H₂O (3.08 g per 100 cm³)

Other Data: Dec. at 540° to ZnCr₂O₄ + ZnO

>>Derivative: Monohydrate

CAS Registry Number: 24981-43-9

Physical Description: Yellow solid

Other Data: Dehydrates at 200°

References:

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