



>>Entry Name: Holmium(III) chloride (HoCl₃)

Synonym(s): Holmium trichloride

CAS Registry Number: 10138-62-2

HoCl₃

Molecular Formula: Cl₃Ho

Molecular Weight: 271.288

Accurate Mass: 269.836875

Percentage Composition: Cl 39.20%; Ho 60.80%

Physical Description: Hygroscopic pale yellow solid

Melting Point: Mp 718° (720°)

Boiling Point: Bp 0° 1510°

Solubility: Sol. H₂O

Other Data: μ_{eff} = 10.87μ_B (300K)

Aldrich: 45090-1

>>Derivative: Hexahydrate

Synonym(s): Hexaaquadichloroholmium(1+) chloride

CAS Registry Number: 14914-84-2

Physical Description: Honey-yellow hygroscopic cryst.

Melting Point: Mp 164° (160°)

Other Data: Formulated as [HoCl₂(OH₂)₆]⁽⁺⁾Cl⁽⁻⁾. Begins to lose H₂O at 75°

Aldrich: 20340-8

>>Derivative: Ho₅Cl₁₁

References:

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