



>>Entry Name: Mercury(II) chloride (Hg₂Cl₂)

Synonym(s): Mercurous chloride

CAS Registry Number: 10112-91-1

Related CAS Registry Numbers(s): 7546-30-7

Cl-Hg-Hg-Cl

Molecular Formula: Cl₂Hg₂

Molecular Weight: 472.085

Accurate Mass: 473.878938

Percentage Composition: Cl 15.02%; Hg 84.98%

Source/Synthesis: Obt. by subl. of HgCl₂ and Hg

Use/Importance: Biocide esp. for clubroot control; used in acousto-optical devices. Cathartic, diuretic, antiseptic, antisyphilitic agent . Fungicide and insecticide

Physical Description: Light-sensitive white solid, turns yellow on heating. Red-brown liq.

Melting Point: Mp 525° (sealed tube)

Boiling Point: Subl. 383° (open vessel)

Solubility: Insol. EtOH, Me₂CO, Et₂O; prac. insol. H₂O (2 x 10⁻⁴ g per 100 cm³ at 25°)

Other Data: Dec. to Hg and HgCl₂. K_{sp} 1.44 x 10⁻¹⁸ at 25°. Ferroelec. phase trans. at 185 K

Hazard & Toxicity: LD₅₀ (orl) 210 mg/kg

Aldrich: 23040-5

Fluka: 83365

Sigma: M2174

>>Variant: Mineral-form

Synonym(s): Calomel

Molecular Formula: Cl₂Hg₂

Molecular Weight: 472.085

Accurate Mass: 473.878938

Percentage Composition: Cl 15.02%; Hg 84.98%

Source/Synthesis: Rare secondary mineral

>>Derivative: Monomer

Molecular Formula: ClHg

Molecular Weight: 236.043

Accurate Mass: 236.939469

Percentage Composition: Cl 15.02%; Hg 84.98%

Other Data: Has no separate existence

References:

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