>>**Entry Name: Mercury(*I*) chloride (Hg_2Cl_2)**
Synonym(s): Mercurous chloride

CAS Registry Number: 10112-91-1
Related CAS Registry Numbers(s): 7546-30-7

Cl-Hg-Hg-Cl

Molecular Formula: Cl_2Hg_2
Molecular Weight: 472.085
Accurate Mass: 473.878938
Percentage Composition: Cl 15.02%; Hg 84.98%

Source/Synthesis: Obt. by subl. of $HgCl_2$ 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, Me_2CO, Et_2O; prac. insol. H_2O (2 x 10^{-4} g per 100 cm^3 at 25°)
Other Data: Dec. to Hg and $HgCl_2$. K_{sp} 1.44 x 10^{-18} at 25°. Ferroelec. phase trans. at 185 K
Hazard & Toxicity: LD_{50} (orl) 210 mg/kg

Aldrich: 23040-5
Fluka: 83365
Sigma: M2174

>>**Variant:** Mineral-form
Synonym(s): Calomel

Molecular Formula: Cl_2Hg_2
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

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