



>>Entry Name: Lead(II) chloride (PbCl₂), 9CI

Synonym(s): Lead dichloride

CAS Registry Number: 7758-95-4

Related CAS Registry Numbers(s): 14639-87-3

Extra CAS Registry Numbers(s): 12612-47-4

PbCl₂

Molecular Formula: Cl₂Pb

Molecular Weight: 278.105

Accurate Mass: 277.914331

Percentage Composition: Cl 25.50%; Pb 74.50%

Source/Synthesis: Synth. by reaction of PbO, basic lead carbonate or Pb(OAc)₂ with HCl. Can also be synth. directly from Pb + Cl₂

Use/Importance: Used in infrared transmitting glass

Physical Description: Cryst. (H₂O)

Melting Point: Mp 501°

Boiling Point: Bp 950°

Solubility: Sol. H₂O, insol. EtOH

Hazard & Toxicity: Toxic

Aldrich: 26869-0

Fluka: 15325

Other: Gelest PBL6220

>>Variant: Mineral-form

Synonym(s): Cotunnite

Molecular Formula: Cl₂Pb

Molecular Weight: 278.105

Accurate Mass: 277.914331

Percentage Composition: Cl 25.50%; Pb 74.50%

Source/Synthesis: Occurs as an alteration product of galena. Found in USA, Chile, Greece and India

Physical Description: Colourless, white, yellowish, greenish cryst.

References:

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Danev, G. *et al.*, *Izv. Otd. Khim. Nauki (Bulg. Akad. Nauk.)*, 1974, **7**, 71; *CA*, **81**, 57684c, (*synth*)

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