



>>Entry Name: Lead(II) carbonate (PbCO₃)

Synonym(s): Carbonic acid, lead(2+) salt (1:1), 9CI

CAS Registry Number: 598-63-0

PbCO₃

Molecular Formula: CO₃Pb

Molecular Weight: 267.209

Accurate Mass: 267.961372

Percentage Composition: C 4.49%; O 17.96%; Pb 77.54%

Source/Synthesis: Prepd. by passing CO₂ into a dilute soln. of Pb(OAc)₂

Physical Description: Cryst.

Melting Point: Mp 315 dec.°

Solubility: Spar. sol. H₂O; insol. EtOH

Hazard & Toxicity: Toxic

Aldrich: 33637-8

Sigma: L3521

>>Variant: Mineral-form

Synonym(s): Cerussite

CAS Registry Number: 14476-15-4

Molecular Formula: CO₃Pb

Molecular Weight: 267.209

Accurate Mass: 267.961372

Percentage Composition: C 4.49%; O 17.96%; Pb 77.54%

Source/Synthesis: Occurs widely as secondary mineral

Physical Description: Colourless, white, grey, smoky; sometimes blue, green, dark grey or black due to inclusions

References:

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Miller, F.A. *et al.*, *Spectrochim. Acta*, 1960, **16**, 135, (*ir*)

Griffith, W.P. *et al.*, *J.C.S.(A)*, 1970, 286, (*Raman*)

Andreeva, V.A. *et al.*, *Zh. Neorg. Khim.*, 1970, **15**, 2089; *CA*, **73**, 115181c, (*synth*)

Sahl, K., *Z. Kristallogr., Kristallgeom., Kristallphys., Kristallchem.*, 1974, **139**, 215, (*cryst struct*)

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