



>>Entry Name: Lead(II) sulfate (PbSO₄)

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

CAS Registry Number: 7446-14-2

PbSO₄

Molecular Formula: O₄PbS

Molecular Weight: 303.264

Accurate Mass: 303.928357

Percentage Composition: O 21.10%; Pb 68.32%; S 10.57%

Source/Synthesis: Formed by mixing solns. of Pb(II) and sulfate

Physical Description: White to yellow-green cryst. Strong oxidant. Hydrol. to form PbO₂

Melting Point: Mp 1170°

Solubility: Prac. insol. H₂O

Hazard & Toxicity: Toxic

Aldrich: 30773-4

Fluka: 15360

>>Variant: Mineral-form

Synonym(s): Anglesite

CAS Registry Number: 14594-79-7

Molecular Formula: O₄PbS

Molecular Weight: 303.264

Accurate Mass: 303.928357

Percentage Composition: O 21.10%; Pb 68.32%; S 10.57%

Source/Synthesis: Occurs as a secondary mineral in USA, Britain, USSR, Australia, Zambia and elsewhere

Physical Description: Orthorhombic, colourless, white, yellowish, grey and pale shades of green or blue cryst.

Other Data: Hardness: 2.8 Mohs

References:

Dana's System of Mineralogy, 7th Ed., Wiley, N.Y., 1951, **2**, 420, (*mineral*)

Hezel, A. *et al.*, *Spectrochim. Acta*, 1966, **22**, 1949, (*ir*)

Blount, C.W. *et al.*, *Am. Mineral.*, 1974, **59**, 1209, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, LDY000