



>>Entry Name: Lead(II) oxide sulfate (Pb₂O(SO₄))

Synonym(s): Basic lead(II) sulfate. Lead oxysulfate

CAS Registry Number: 12036-76-9

Pb₂O(SO₄) or PbSO₄.PbO

Molecular Formula: O₅Pb₂S

Molecular Weight: 526.463

Accurate Mass: 527.899899

Percentage Composition: O 15.20%; Pb 78.71%; S 6.09%

Use/Importance: Insulator

Physical Description: White monoclinic cryst.

Melting Point: Mp 977°

Solubility: V. sl. sol. hot H₂O; spar. sol. cold H₂O; sl. sol. H₂SO₄

>>Variant: Mineral-form

Synonym(s): Lanarkite

Molecular Formula: O₅Pb₂S

Molecular Weight: 526.463

Accurate Mass: 527.899899

Percentage Composition: O 15.20%; Pb 78.71%; S 6.09%

Source/Synthesis: Occurs as secondary mineral in lead ore deposits

Physical Description: Grey, greenish-white or yellow cryst.

References:

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Spivak, M.M. et al., Kompleksn. Ispol'z. Miner. Syr'ya, 1982, 56, (synth)

Norwicz, J., Arch. Hutn., 1984, **29**, 545

Meutzen, B. et al., Mater. Res. Bull., 1984, **19**, 549, (cryst struct)

Porte, L. et al., Mater. Res. Bull., 1984, **19**, 1047