



>>Entry Name: Lead(II) oxide sulfate (Pb₄O₃(SO₄))

Synonym(s): Tribasic lead sulfate. Austrostab MCS 20. Stabinex Tc

CAS Registry Number: 12202-17-4

Extra CAS Registry Numbers(s): 12397-06-7

Pb₄O₃(SO₄)

Molecular Formula: O₇Pb₄S

Molecular Weight: 972.862

Accurate Mass: 975.842983

Percentage Composition: O 11.51%; Pb 85.19%; S 3.30%

Source/Synthesis: Phase in the PbO-PbSO₄-H₂O system

Use/Importance: Heat stabiliser for PVC; component of lead-acid battery cathode pastes

Physical Description: Solid + 1H₂O

References:

Clark, G.L. *et al.*, *Z. Anorg. Allg. Chem.*, 1936, **229**, 401-409, (*synth*)

Lander, J.J. *et al.*, *J. Electrochem. Soc.*, 1949, **95**, 174-186, (*synth*)

Kuzel, H.J. *et al.*, *Neues Jahrb. Mineral., Monatsh.*, 1973, 110-116, (*synth, cryst struct*)

Trettenhahn, G.L.J. *et al.*, *Vib. Spectrosc.*, 1993, **5**, 85-100, (*ir, Raman*)