



>>Entry Name: Lead(II) hydroxide (Pb(OH)₂)

Synonym(s): Lead dihydroxide. Dihydroxylead

CAS Registry Number: 19783-14-3

Pb(OH)₂

Molecular Formula: H₂O₂Pb

Molecular Weight: 241.215

Accurate Mass: 241.982107

Percentage Composition: H 0.84%; O 13.27%; Pb 85.90%

Source/Synthesis: Synth. by electrolysis of lead salts

Use/Importance: Has been used as catalyst in manuf. of catechol

Physical Description: White amorphous solid. Amphoteric base in aq. soln.

Solubility: Spar. sol. cold H₂O; sl. sol. hot H₂O; insol. AcOH

Other Data: Begins to dehydrate at =130°, dec. completely by 145°

Hazard & Toxicity: Poisonous

References:

Riitsu, T., *Naturwissenschaften*, 1956, **43**, 322, (*synth*)

Tolkachev, S.S. *et al.*, *Vestn. Leningr. Univ., Ser. 4: Fiz. Khim.*, No. 3, 1958, 134, (*synth, cryst struct*)

Ozherel'ev, D.I. *et al.*, *Zh. Neorg. Khim.*, 1968, **13**, 1530

Shevchenko, G.P. *et al.*, *Zh. Fiz. Khim.*, 1970, **44**, 546

Compr. Inorg. Chem., Pergamon, Oxford, 1973, **2**, 122, (*rev*)

Greninger, D. *et al.*, *Lead Chemicals*, ILZRO, NY, 1975, 62, (*rev*)