



>>Entry Name: Lead(II) hexafluorosilicate

Synonym(s): Lead fluosilicate

CAS Registry Number: 25808-74-6

Related CAS Registry Numbers(s): 17084-08-1 83689-82-1

PbSiF₆

Molecular Formula: F₆PbSi

Molecular Weight: 349.276

Accurate Mass: 349.943972

Percentage Composition: F 32.64%; Pb 59.32%; Si 8.04%

Use/Importance: Used as electrolyte, decontaminant for materials in nuclear reactors, in fire proofing agents, for refining Pb, for removal of building-damaging sulfates and chlorides

Hazard & Toxicity: Toxic

>>Derivative: Dihydrate

CAS Registry Number: 1310-03-8

Molecular Formula: F₆H₄O₂PbSi

Molecular Weight: 385.306

Accurate Mass: 385.965102

Percentage Composition: F 29.58%; H 1.05%; O 8.30%; Pb 53.78%; Si 7.29%

Physical Description: Colourless monoclinic cryst.

Solubility: V. sol. H₂O

Other Data: Dec. on heating

References:

Wilke, K.T. *et al.*, *Z. Phys. Chem.*, 1960, **213**, 191, (*synth*)

U.S. Pat., 1969, 3 425 998; *CA*, **70**, 68847, (*synth*)

Eur. Pat., 1982, 64 947; *CA*, **98**, 166070, (*use*)

Henk, P.O., *Lead (London)*, 1983, **8**, 78, (*electrolyte*)

Japan. Pat., 1986, 86 09 588; *CA*, **104**, 228906, (*use*)

Pat. Coop. Treaty (WIPO), 1986, 86 07 184; *CA*, **106**, 184747, (*use*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, LDG000