



>>Entry Name: Silver(I) hexafluorophosphate

CAS Registry Number: 26042-63-7

Ag[PF₆]

Molecular Formula: AgF₆P

Molecular Weight: 252.832

Accurate Mass: 251.869272

Percentage Composition: Ag 42.66%; F 45.09%; P 12.25%

Source/Synthesis: Prepd. from AgF + PF₅ in liq. SO₂

Use/Importance: Commercially available. Catalyst for synth. of asymm. sulfides and vinyl fluorides

Physical Description: Yellow-brown solid

Solubility: Sol. H₂O

Aldrich: 45021-9

Fluka: 85186

Sigma: S2648

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1239C, (*ir*)

Woolf, A.A. *et al.*, *J.C.S.*, 1950, 1050, (*synth*)

Russell, D.R. *et al.*, *J.C.S.*, 1961, 4689, (*synth*)

Kemmitt, R.D.W. *et al.*, *J.C.S.*, 1963, 4408, (*cryst struct*)

Tills, M.A. *et al.*, *Synth. Commun.*, 1992, **22**, 1461, (*use*)