



>>Entry Name: Silver(1+) hexafluoroarsenate, 9CI

CAS Registry Number: 12005-82-2

Ag[AsF₆]

Molecular Formula: AgAsF₆

Molecular Weight: 296.78

Accurate Mass: 295.817104

Percentage Composition: Ag 36.35%; As 25.24%; F 38.41%

Source/Synthesis: Prepd. from Ag + AsF₅ in liq. SO₂ or from Ag + As₂O₃ + BrF₃

Use/Importance: Commercially available

Physical Description: White cryst., sensitive to moisture and light

Solubility: V. sol. SO₂; insol. nonpolar solvs.

Aldrich: 33909-1

References:

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

Cox, B. *et al.*, *J.C.S.*, 1956, 876, (*cryst struct*)

Pitts, J.J. *et al.*, *Inorg. Chem.*, 1965, **4**, 257, (*ir*)

Guo, Q.Z. *et al.*, *J. Magn. Reson.*, 1984, **57**, 143, (*F-19 nmr*)

Inorg. Synth., 1986, **24**, 72, (*synth*)