



>>Entry Name: Silver(II) fluoride (AgF₂)

Synonym(s): Argentic fluoride. Silver difluoride

CAS Registry Number: 7783-95-1

AgF₂

Molecular Formula: AgF₂

Molecular Weight: 145.865

Accurate Mass: 144.901898

Percentage Composition: Ag 73.95%; F 26.05%

Use/Importance: Commercially available

Physical Description: V. hygroscopic; white when pure. Usually obt. as a grey-black or brownish amorphous solid. Light sensitive

Hazard & Toxicity: Highly toxic. Violent reaction with water. Powerful oxidising agent

Aldrich: 20092-1

Fluka: 85182

References:

Ebert, M.S. *et al.*, *J.A.C.S.*, 1933, **55**, 3056, (*synth*)

Ruff, O. *et al.*, *Z. Anorg. Allg. Chem.*, 1934, **219**, 143, (*synth, cryst struct*)

Inorg. Synth., 1950, **3**, 176, (*synth*)

Rochow, E.G. *et al.*, *J.A.C.S.*, 1952, **74**, 1615, (*synth*)

Fischer, P. *et al.*, *J. Phys. Chem. Solids*, 1971, **32**, 543, (*nd*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **1**, 248, (*synth*)

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