



>>Entry Name: Seleninyl fluoride, 11Cl

Synonym(s): Selenium difluoride oxide. Selenium oxyfluoride

CAS Registry Number: 7783-43-9

O=SeF₂ (C_s)

Molecular Formula: F₂OSe

Molecular Weight: 132.956

Accurate Mass: 133.908241

Percentage Composition: F 28.58%; O 12.03%; Se 59.39%

Source/Synthesis: Synth. from SeO₂ + SF₄

Physical Description: Colourless liq. with ozone-like odour; fumes in moist air

Melting Point: Mp 15°

Boiling Point: Bp 126°

Density: d^{21.5} 2.8

Hazard & Toxicity: Strong irritant, vesicant. Attacks glass

References:

Bowater, I.C. *et al.*, *J. Mol. Spectrosc.*, 1968, **28**, 461, (*struct*)

Cohen, B. *et al.*, *Adv. Fluorine Chem.*, 1970, **6**, 343, (*rev*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **1**, 196, (*synth*)

Holloway, J.H. *et al.*, *Adv. Inorg. Chem. Radiochem.*, 1983, **27**, 157, (*rev*)

Gmelin Handbook Inorg. Chem., Syst. No. 10, *Suppl. Vol.*, 1984, **B2**, 67, (*bibl*)

Inorg. Synth., 1986, **24**, 28, (*synth, ir, F-19 nmr*)