



>>Entry Name: Tin fluoride (SnF₂), 9CI

Synonym(s): Stannous fluoride, USAN. Tetra-μ-fluorotetrafluorotetratin. Stop

CAS Registry Number: 7783-47-3

SnF₂

Molecular Formula: F₂Sn

Molecular Weight: 156.707

Accurate Mass: 155.899006

Percentage Composition: F 24.25%; Sn 75.75%

Source/Synthesis: Synth. by dissolving SnO in aq. HF or from Sn + HF

Use/Importance: Dental caries prophylactic. Reacts with allyl iodide to form allyltin difluoroiodide, which reacts with aldehydes to form homoallylic alcohols

Physical Description: Colourless hygroscopic prisms

Melting Point: Mp 210-215°

Boiling Point: Subl. 705°

Solubility: V. sol. H₂O; prac. insol. MeOH, Et₂O, CHCl₃

Hazard & Toxicity: OES: long-term 2 mg/m³ (as Sn). LD₅₀ (rat, orl) 377 mg/kg

Aldrich: 33462-6

Fluka: 96535

Sigma: S2877

Other: Gelest SNT7940

References:

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