



>>Entry Name: Fluorotriphenylstannane, 9CI

Synonym(s): Triphenyltin fluoride

CAS Registry Number: 379-52-2

Ph₃SnF

Molecular Formula: C₁₈H₁₅FSn

Molecular Weight: 369.025

Accurate Mass: 368.017978

Percentage Composition: C 58.59%; H 4.10%; F 5.15%; Sn 32.17%

General Statement: Pentacoord. Sn in the solid state, apparently equally coupled to 2 F atoms. Monomeric in the vapour phase

Source/Synthesis: Synth. from Ph₃SnCl + KF

Use/Importance: Antifouling agent used in marine coating compds.

Physical Description: Prisms

Melting Point: Mp 357°

Hazard & Toxicity: LD₅₀ (rat, orl) 486 mg/kg

Other: Gelest SNT8670

References:

Licht, K. *et al.*, *Z. Anorg. Allg. Chem.*, 1971, **385**, 271-288, (*synth, ir, Raman, Mössbauer, ms*)

Bai, H. *et al.*, *J. Organomet. Chem.*, 1991, **408**, 167-172, (*synth, Sn-119 nmr*)