



>>Entry Name: Difluorotriphenylsilicate(1-), 11Cl

[Ph₃SiF₂]⁽⁻⁾

Molecular Formula: C₁₈H₁₅F₂Si⁽⁻⁾

Molecular Weight: 297.399

Accurate Mass: 297.091108

Percentage Composition: C 72.70%; H 5.08%; F 12.78%; Si 9.44%

>>Derivative: (18-Crown-6)K salt

CAS Registry Number: 102418-62-2

Molecular Formula: C₃₀H₃₉F₂KO₆Si

Molecular Weight: 600.815

Percentage Composition: C 59.97%; H 6.54%; F 6.32%; K 6.51%; O 15.98%; Si 4.67%

Source/Synthesis: Synth. from Fluorotriphenylsilane [BPD03-B](#) + KF + 18-crown-6

Physical Description: Cryst.

>>Derivative: Tetrabutylammonium salt

CAS Registry Number: 163931-61-1

Molecular Formula: C₃₄H₅₁F₂NSi

Molecular Weight: 539.866

Accurate Mass: 539.375882

Percentage Composition: C 75.64%; H 9.52%; F 7.04%; N 2.59%; Si 5.20%

Source/Synthesis: Synth. from Fluorotriphenylsilane [BPD03-B](#) + Bu₄NF

Use/Importance: Fluoride source for nucleophilic reactions

Physical Description: Large white spears

Melting Point: Mp 150-151°

Aldrich: 44145-7

References:

Damrauer, R. *et al.*, *Organometallics*, 1986, **5**, 1490, (*synth, pmr, cmr*)

Pilcher, A.S. *et al.*, *J.A.C.S.*, 1995, **117**, 5166, (*synth, ir, pmr, F-19 nmr, Si-29 nmr, use*)