>>**Entry Name: Difluorotriphenylsilicate(1–),** 11Cl

$[Ph_3SiF_2]^{(-)}$

Molecular Formula: $C_{18}H_{15}F_2Si^{(-)}$
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: $C_{30}H_{39}F_2KO_6Si$
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: $C_{34}H_{51}F_2NSi$
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 + Bu_4NF
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)*