



>>Entry Name: Triisopropylsilyl trifluoromethanesulfonate

Synonym(s): Tris(1-methylethyl)silyl trifluoromethanesulfonate, 11Cl. Triisopropylsilyl triflate

CAS Registry Number: 80522-42-5

$\text{F}_3\text{CSO}_3\text{Si}(\text{CHMe}_2)_3$

Molecular Formula: $\text{C}_{10}\text{H}_{21}\text{F}_3\text{O}_3\text{SSi}$

Molecular Weight: 306.421

Accurate Mass: 306.093276

Percentage Composition: C 39.20%; H 6.91%; F 18.60%; O 15.66%; S 10.46%; Si 9.17%

Source/Synthesis: Synth. from $\text{F}_3\text{CSO}_3\text{H} + \text{Pr}^i_2\text{SiH}$

Use/Importance: Silylating agent for primary and secondary alcohols

Physical Description: Liq.

Boiling Point: $\text{Bp}_{1.7}$ 83-87°

Aldrich: 24846-0

Fluka: 91746

References:

Corey, E.J. *et al.*, *Tet. Lett.*, 1981, **22**, 3455, (*synth, pmr, use*)

Olah, G.A. *et al.*, *Organometallics*, 1984, **3**, 1337, (*Si-29 nmr*)