



>>Entry Name: Trimethyl[(1-phenylethenyl)oxy]silane, 9CI

Synonym(s): Trimethyl[(1-phenylvinyl)oxy]silane, 8CI. α -Trimethylsilyloxystyrene. 1-Phenyl-1-trimethylsilyloxyethylene

CAS Registry Number: 13735-81-4

$\text{H}_2\text{C}=\text{CPhOSiMe}_3$

Molecular Formula: $\text{C}_{11}\text{H}_{16}\text{OSi}$

Molecular Weight: 192.332

Accurate Mass: 192.097042

Percentage Composition: C 68.69%; H 8.38%; O 8.32%; Si 14.60%

Source/Synthesis: Synth. from PhCOMe, $\text{Me}_3\text{SiCH}_2\text{CH}=\text{CH}_2$, $\text{F}_3\text{CSO}_3\text{H}$ and Et_3N

Use/Importance: Comly. available, versatile synthetic reagent. Undergoes crossed aldol reactions

Physical Description: Moisture-sensitive liq.

Boiling Point: Bp_{12} 89-91°. Bp_1 53-54°

Refractive Index: n_D^{20} 1.5028

Other Data: Will not homopolym. but undergoes radical copolym. with vinyl monomers. Q/e for radical polym., Q 0.88, e -1.13

Aldrich: 23504-0

Fluka: 79270

References:

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