



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

Synonym(s): (Isopropenyloxy)trimethylsilane. 2-(Trimethylsiloxy)propene. Acetone trimethylsilyl enol ether

CAS Registry Number: 1833-53-0

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

Molecular Formula: $\text{C}_6\text{H}_{14}\text{OSi}$

Molecular Weight: 130.261

Accurate Mass: 130.081392

Percentage Composition: C 55.32%; H 10.83%; O 12.28%; Si 21.56%

Source/Synthesis: Synth. from $\text{Me}_2\text{CO} + \text{Me}_3\text{SiCl} + \text{NaI}$

Use/Importance: Reagent for formn. of acetonides of cyclic 1,2-diols

Physical Description: Liq.

Boiling Point: Bp 94-96°

Aldrich: 37607-8

Fluka: 59275

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **3**, 669C, (*nmr*)

Krüger, C.R. *et al.*, *J. Organomet. Chem.*, 1964, **1**, 476-483, (*synth*)

Larson, G.L. *et al.*, *J.O.C.*, 1973, **38**, 3935-3936, (*use*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1975, **5**, 718, (*use*)

Gerval, P. *et al.*, *J. Organomet. Chem.*, 1978, **153**, 137-151, (*synth*)

Emde, H. *et al.*, *Annalen*, 1981, 1643-1657, (*synth*)

Org. Synth., 1987, **65**, 1-5, (*synth, ir, pmr*)

Shi, G. *et al.*, *J.O.C.*, 1990, **55**, 3383-3386, (*use*)

Iqbal, J. *et al.*, *Tetrahedron*, 1991, **47**, 8753-8766, (*use*)