



>>Entry Name: 2-Trimethylsilyloxy-1,3-butadiene

Synonym(s): Trimethyl[(1-methylene-2-propenyl)oxy]silane, 10Cl. Trimethyl(1-vinylvinlyloxy)silane

CAS Registry Number: 38053-91-7



Molecular Formula: $\text{C}_7\text{H}_{14}\text{OSi}$

Molecular Weight: 142.272

Accurate Mass: 142.081392

Percentage Composition: C 59.10%; H 9.92%; O 11.25%; Si 19.74%

Source/Synthesis: Synth. from $\text{H}_2\text{C}=\text{CHC}(\text{O})\text{CH}_3 + \text{Me}_3\text{SiCl} + \text{Et}_3\text{N}$

Use/Importance: Reactive diene in Diels-Alder reaction; used for synth. of cyclohexanones

Physical Description: Colourless oil

Boiling Point: Bp_{50} 50-55°

References:

Girard, C. *et al.*, *Tet. Lett.*, 1974, 3329, (*synth, use*)

Jung, M.E. *et al.*, *Tet. Lett.*, 1976, 2935, (*synth, use*)

Org. Synth., 1978, **58**, 163, (*pmr, synth*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1979, **7**, 401, (*synth, use*)

Dötz, K.H., *Angew. Chem., Int. Ed.*, 1984, **23**, 587, (*use, cycloaddn*)

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