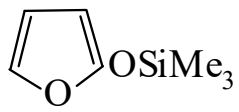
>>**Entry Name: 2-(Trimethylsilyloxy)furan**
Synonym(s): (2-Furanyloxy)trimethylsilane, 10CI



CAS Registry Number: 61550-02-5

Molecular Formula: $C_7H_{12}O_2Si$
Molecular Weight: 156.256
Accurate Mass: 156.060657
Percentage Composition: C 53.81%; H 7.74%; O 20.48%; Si 17.97%
Source/Synthesis: Synth. from 3-penten-4-olide + Me_3SiCl in Et_3N
Use/Importance: Reagent for diastereoselective aldol condensations with aldehydes, in presence of a Lewis acid or $F^{(-)}$ catalyst, to give δ-hydroxy-α,β-unsatd. γ-lactones; diastereoselection depends on catalyst used
Physical Description: Liq.
Boiling Point: $Bp_{9.5}$ 34-35° (lit. gives a pressure range)

Aldrich: 30806-4
Fluka: 92739

References:
Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 713B, *(nmr)*
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1670D, *(ir)*
Yoshii, E. *et al.*, *Heterocycles*, 1976, **4**, 1663, *(synth)*
Asaoka, M. *et al.*, *Chem. Lett.*, 1977, 167, *(synth)*
Asaoka, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1979, **52**, 1953, *(props)*
Jefford, C.W. *et al.*, *Tet. Lett.*, 1987, **28**, 4037, *(use, aldol condensation)*
Casiraghi, G. *et al.*, *Tetrahedron*, 1990, **46**, 5804, *(use)*
Stuart, J.G. *et al.*, *Heterocycles*, 1991, **32**, 949, *(use)*