



>>Entry Name: **Allyl(diisopropylamino)dimethylsilane**

Synonym(s): 1,1-Dimethyl-*N,N*-bis(1-methylethyl)-1-(2-propenyl)silanamine, 11Cl

CAS Registry Number: 106948-24-7



Molecular Formula: $\text{C}_{11}\text{H}_{25}\text{NSi}$

Molecular Weight: 199.411

Accurate Mass: 199.175626

Percentage Composition: C 66.26%; H 12.64%; N 7.02%; Si 14.08%

Source/Synthesis: Synth. from $\text{H}_2\text{C}=\text{CHCH}_2\text{SiMe}_2\text{Cl}$ and NHPr^i_2

Use/Importance: ZnCl complex adds regio- and stereoselectively to aldehydes to give *erythro*-3-silyl-1-alken-4-ols which are transformed into *erythro*-1-alkene-3,4-diols by oxidn. of C-Si bonds

Physical Description: Liq.

Boiling Point: Bp_{18} 86-88°

Aldrich: 41715-7

Sigma: A1452

References:

Tamao, K. *et al.*, *J.O.C.*, 1987, **52**, 957, (*synth, reactions with aldehydes*)