



>>Entry Name: 2-Propenylurea, 9CI

Synonym(s): Allylurea. Allylcarbamide

CAS Registry Number: 557-11-9

$\text{H}_2\text{C}=\text{CHCH}_2\text{NHCONH}_2$

Molecular Formula: $\text{C}_4\text{H}_8\text{N}_2\text{O}$

Molecular Weight: 100.12

Accurate Mass: 100.063663

Percentage Composition: C 47.99%; H 8.05%; N 27.98%; O 15.98%

Use/Importance: Reagent for direct allylation and allylidenation of carbonyl compds. in presence of Pd(0) under neutral conds.

Physical Description: Needles (EtOH)

Melting Point: Mp 85°

Solubility: Sol. H_2O , EtOH, insol. petrol, toluene

Aldrich: A3680-8

Fluka: 5970

Sigma: A8768

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 1308B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 800D, (*ir*)

Andreasch, R., *Monatsh. Chem.*, 1884, **5**, 37

Ivanov, N.A. *et al.*, *CA*, 1976, **85**, 177037, (*synth*)

Inoue, Y. *et al.*, *Bull. Chem. Soc. Jpn.*, 1986, **59**, 885; 1279, (*use*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, AGV000