



>>Entry Name: 2-Chloro-2-propen-1-ol, 9CI

Synonym(s): 2-Chloroallyl alcohol

CAS Registry Number: 5976-47-6

$\text{H}_2\text{C}=\text{CClCH}_2\text{OH}$

Molecular Formula: $\text{C}_3\text{H}_5\text{ClO}$

Molecular Weight: 92.525

Accurate Mass: 92.002892

Percentage Composition: C 38.94%; H 5.45%; Cl 38.32%; O 17.29%

Physical Description: Liq.

Boiling Point: Bp 136-140°

Solubility: Sol. EtOH; dec. H_2O

Density: d^{20}_4 1.162

Refractive Index: n^{20}_D 1.4588

Other Data: Q/e values for copolym., Q 0.091, e -0.95

Hazard & Toxicity: Severe skin irritant

Aldrich: 36390-1

Rare Chemicals Library: S42916-3

>>Derivative: Ac

CAS Registry Number: 692-72-8

Molecular Formula: $\text{C}_5\text{H}_7\text{ClO}_2$

Molecular Weight: 134.562

Accurate Mass: 134.013457

Percentage Composition: C 44.63%; H 5.24%; Cl 26.35%; O 23.78%

Physical Description: Liq.

Boiling Point: Bp 145°

Aldrich: 29077-7

>>Derivative: Et ether

Synonym(s): 2-Chloro-3-ethoxypropene

CAS Registry Number: 25290-63-5

Molecular Formula: $\text{C}_5\text{H}_9\text{ClO}$

Molecular Weight: 120.578

Accurate Mass: 120.034192

Percentage Composition: C 49.81%; H 7.52%; Cl 29.40%; O 13.27%

Physical Description: Liq.

Boiling Point: Bp 110°

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 1028B, (nmr)

Aldrich Library of Infrared Spectra, 3rd edn., 1981, 109A, (ir)

v. Romburgh, P., *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1882, **1**, 233

Greenley, R.Z., *J. Macromol. Sci., Chem., Part A*, 1980, **14**, 427, (Q/e values)

Schuda, P.F. *et al.*, *Synth. Commun.*, 1984, **14**, 293, (synth, ir, pmr, Ac)

Kadota, J. *et al.*, *J.O.C.*, 1999, **64**, 7523-7527, (Ac)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CEF250