



>>Entry Name: 3-Chloro-2-methyl-1-propene, 9Cl

Synonym(s): 3-Chloroisobutene. Methallyl chloride

CAS Registry Number: 563-47-3

$\text{H}_2\text{C}=\text{C}(\text{CH}_3)\text{CH}_2\text{Cl}$

Molecular Formula: $\text{C}_4\text{H}_7\text{Cl}$

Molecular Weight: 90.552

Accurate Mass: 90.023627

Percentage Composition: C 53.06%; H 7.79%; Cl 39.15%

Boiling Point: Bp 72.1-72.2°

Solubility: Misc. EtOH, Et₂O

Density: d^{20}_4 0.916

Refractive Index: n^{20}_D 1.4291

Other Data: Vp 127 mmHg (25°). Homopolym. with difficulty. Q/e values for copolym., Q 0.17, e -0.86

Hazard & Toxicity: Eye, skin and respiratory tract irritant. Exp. carcinogenic and reprod. effects (large doses). Extremely flammable, fl. p. -19°

Aldrich: 28197-2

Fluka: 64230

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **1**, 138A, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 96D, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 135B, (ir)

Barnes, R.B. *et al.*, *Ind. Eng. Chem., Anal. Ed.*, 1943, **15**, 659, (ir)

Gerrard, W. *et al.*, *J.C.S.*, 1956, 3285, (synth)

Lucken, E.A.C., *J.C.S.*, 1959, 2954, (nqr)

Harville, R. *et al.*, *J. Polym. Sci., Part A-1*, 1970, **8**, 2535, (polym)

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

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CIU750