



>>Entry Name: 2-Methyl-1-butene, 9CI

Synonym(s): γ -Amylene. *unsym*-Methylethylethylene. γ -Isoamylene

CAS Registry Number: 563-46-2

Extra CAS Registry Numbers(s): 26760-64-5

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

Molecular Formula: C_5H_{10}

Molecular Weight: 70.134

Accurate Mass: 70.07825

Percentage Composition: C 85.63%; H 14.37%

Physical Description: Liq.

Melting Point: Fp -137.56°

Boiling Point: Bp 31.05°

Solubility: Insol. H_2O ; sol. EtOH, Et_2O , C_6H_6

Density: d_4^{20} 0.65

Refractive Index: n_D^{20} 1.3778

Other Data: Undergoes cationic polym. with rearrangement

Hazard & Toxicity: Extremely flammable, fl. p. -20°

Aldrich: 25748-6

Fluka: 66040

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 30C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 21B, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 28C, (*ir*)

Sherrill, M.L. *et al.*, *J.A.C.S.*, 1936, **58**, 742, (*synth, props*)

Hunig, S. *et al.*, *Chem. Ber.*, 1958, **91**, 380, (*synth*)

Heyns, K. *et al.*, *Chem. Ber.*, 1961, **94**, 1015, (*synth*)

Van Lohuizen, O.E. *et al.*, *J. Polym. Sci., Part C*, 1965, **16**, 3943, (*polym*)

Amemiya, T. *et al.*, *CA*, 1969, **71**, 70005, (*synth*)

Roach, L.C. *et al.*, *Chem. Comm.*, 1970, 606, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, MHT000

Bretherick, L., *Handbook of Reactive Chemical Hazards, 4th edn.*, Butterworths, 1990, 1823