



>>Entry Name: 1-Pentene, 9CI

Synonym(s): α -Amylene

CAS Registry Number: 109-67-1

Extra CAS Registry Numbers(s): 25377-72-4

$\text{H}_3\text{CCH}_2\text{CH}_2\text{CH}=\text{CH}_2$

Molecular Formula: C_5H_{10}

Molecular Weight: 70.134

Accurate Mass: 70.07825

Percentage Composition: C 85.63%; H 14.37%

Physical Description: Volatile liq.

Melting Point: Fp -165°

Boiling Point: Bp 30.1°

Density: d_4^{20} 0.641

Refractive Index: n_D^{20} 1.3711

Hazard & Toxicity: Mod. toxic, narcotic. Extremely flammable, fl. p. -18° , autoignition temp. 273° . Anaesthetic

Aldrich: 32842-1

Fluka: 76973

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 17C, (nmr)

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Sadtler Standard NMR Spectra, 3414, (pmr)

Leendertse, J.J. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1934, **53**, 715, (props)

Kazanskii, B.A. *et al.*, *CA*, 1948, **42**, 2226, (synth)

Couperus, P.A. *et al.*, *Org. Magn. Reson.*, 1976, **8**, 426, (cmr)

Holmes, J.L. *et al.*, *Org. Mass Spectrom.*, 1990, **25**, 381, (ms)

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Ethel Browning's Toxicity and Metabolism of Industrial Solvents, 2nd edn., (ed. Snyder, R.), Elsevier, Volume 1, 1987, 369

Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 1827