



>>Entry Name: 2-Pentyne, 9CI

Synonym(s): Ethylmethyacetylene

CAS Registry Number: 627-21-4

$\text{H}_3\text{CCH}_2\text{C}\equiv\text{CCH}_3$

Molecular Formula: C_5H_8

Molecular Weight: 68.118

Accurate Mass: 68.0626

Percentage Composition: C 88.16%; H 11.84%

Biological Source: Found in petroleum and fusel oil

Melting Point: Fp -109.32°

Boiling Point: Bp 56.12°

Density: $d_4^{17} 0.713$

Refractive Index: $n_D^{17} 1.4045$

Hazard & Toxicity: Highly flammable, fl. p. $<-20^\circ$

Aldrich: 27135-7

Fluka: 77048

References:

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1580A, (ir)

Scherrill, M.L. *et al.*, *J.A.C.S.*, 1938, **60**, 2562, (synth)

Rondeau, R.E. *et al.*, *J. Chem. Eng. Data*, 1968, **13**, 109, (ms)

Kornprobst, J.M. *et al.*, *J. Chim. Phys. Phys.-Chim. Biol.*, 1974, **71**, 1129, (cmr)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, PCA300

Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 1781