



>>Entry Name: 1-Decyne, 9CI

Synonym(s): Octylacetylene

CAS Registry Number: 764-93-2

$\text{H}_3\text{C}(\text{CH}_2)_7\text{C}\equiv\text{CH}$

Molecular Formula: $\text{C}_{10}\text{H}_{18}$

Molecular Weight: 138.252

Accurate Mass: 138.14085

Percentage Composition: C 86.88%; H 13.12%

Physical Description: Liq.

Melting Point: Mp -36°

Boiling Point: Bp₇₄₅ 181-182°. Bp₁₀ 69-70°

Density: d_4^{20} 0.791

Refractive Index: n_D^{20} 1.4269

Aldrich: 24438-4

Fluka: 30670

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 932D, (*ir*)

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **3**, 504A, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1582A, (*ir*)

Vaughn, T.M., *J.A.C.S.*, 1934, **56**, 2064, (*synth*)

Org. React. (N.Y.), 1949, **5**, 1, (*synth*)

Eisner, D.B. *et al.*, *J.C.S.*, 1951, 893, (*synth*)

Manion, J.J. *et al.*, *Spectrochim. Acta*, 1961, **17**, 990, (*ir*)

Klein, J. *et al.*, *Tetrahedron*, 1970, **26**, 2127, (*synth*)

Gendreau, V. *et al.*, *J. Organomet. Chem.*, 1977, **142**, 1, (*synth*)

Taherirastgar, F. *et al.*, *Synth. Commun.*, 1997, **27**, 4035-4040, (*synth*)