



>>Entry Name: 1,4-Pentadien-3-ol, 9CI

Synonym(s): Divinylcarbinol

CAS Registry Number: 922-65-6

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

Molecular Formula: $\text{C}_5\text{H}_8\text{O}$

Molecular Weight: 84.118

Accurate Mass: 84.057515

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Use/Importance: Useful synthon for carbohydrates and related compds. *via* epoxidations

Physical Description: Liq.

Boiling Point: Bp 115-116°. Bp₁₀₀ 64-66°

Aldrich: 32466-3

Fluka: 76628

>>Derivative: 1-Naphthylurethane

Physical Description: Needles (MeOH aq.)

Melting Point: Mp 100-101°

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 222A, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 217A, (*ir*)

Heilbron, I. *et al.*, *J.C.S.*, 1945, 84, (*synth*)

Ramsden, H.E. *et al.*, *J.O.C.*, 1957, **22**, 1602, (*synth*)

Holland, D. *et al.*, *Carbohydr. Res.*, 1982, **100**, 207, (*synth, pmr, use*)

Häfele, B. *et al.*, *Angew. Chem., Int. Ed.*, 1986, **25**, 87, (*use*)

Shishido, K. *et al.*, *J.C.S. Perkin 1*, 1986, 829, (*synth, ir, pmr*)

Marstokk, K.M. *et al.*, *Acta Chem. Scand.*, 1990, **44**, 18, (*struct, conformn*)