



>>Entry Name: **2,4-Dimethyl-3-pentanol**

Synonym(s): Diisopropylcarbinol

CAS Registry Number: 600-36-2

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

Molecular Formula: $\text{C}_7\text{H}_{16}\text{O}$

Molecular Weight: 116.203

Accurate Mass: 116.120115

Percentage Composition: C 72.35%; H 13.88%; O 13.77%

Physical Description: Liq.

Boiling Point: Bp 139°

Density: d_4^{20} 0.829

Refractive Index: n_D^{20} 1.4226

Hazard & Toxicity: Flammable, fl. p. 49°

Aldrich: 15789-9

Fluka: 41140

>>Derivative: Ac

Molecular Formula: $\text{C}_9\text{H}_{18}\text{O}_2$

Molecular Weight: 158.24

Accurate Mass: 158.13068

Percentage Composition: C 68.31%; H 11.46%; O 20.22%

Physical Description: Liq.

Boiling Point: Bp 160-161°

>>Derivative: 3,5-Dinitrobenzoyl

Melting Point: Mp 75°

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 186B, (*nmr*)

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Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 175B, (*ir*)

Conant, J.B. *et al.*, *J.A.C.S.*, 1929, **51**, 1233, (*synth*)

Graves, G.D., *Ind. Eng. Chem.*, 1931, **23**, 1383, (*synth*)

Neunhöffer, O. *et al.*, *Annalen*, 1936, **526**, 71, (*synth*)

Sax, N.I., *Dangerous Properties of Industrial Materials, 5th edn.*, Van Nostrand Reinhold, 1979, 592