



>>Entry Name: 2-Decanol, 9CI

CAS Registry Number: 1120-06-5

Related CAS Registry Numbers(s): 1534-32-3

Extra CAS Registry Numbers(s): 36729-58-5

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

Molecular Formula: $\text{C}_{10}\text{H}_{22}\text{O}$

Molecular Weight: 158.283

Accurate Mass: 158.167065

Percentage Composition: C 75.88%; H 14.01%; O 10.11%

Aldrich: 11831-1

Fluka: 30620

>>Variant: (+)-form

CAS Registry Number: 33758-16-6

Molecular Formula: $\text{C}_{10}\text{H}_{22}\text{O}$

Molecular Weight: 158.283

Accurate Mass: 158.167065

Percentage Composition: C 75.88%; H 14.01%; O 10.11%

Boiling Point: Bp 210°. Bp₁₀ 110-111°

Density: d_4^{20} 0.825

Refractive Index: n_D^{20} 1.4344

>>Derivative: Ac

Molecular Formula: $\text{C}_{12}\text{H}_{24}\text{O}_2$

Molecular Weight: 200.32

Accurate Mass: 200.17763

Percentage Composition: C 71.95%; H 12.08%; O 15.97%

Boiling Point: Bp₁₅ 115°

Optical Rotation: $[\alpha]_D^{20}$ +5.64

>>Variant: (±)-form

CAS Registry Number: 74742-10-2

Molecular Formula: $\text{C}_{10}\text{H}_{22}\text{O}$

Molecular Weight: 158.283

Accurate Mass: 158.167065

Percentage Composition: C 75.88%; H 14.01%; O 10.11%

Boiling Point: Bp 210-211°. Bp₁₀ 110-111°

>>Derivative: 3,5-Dinitrobenzoyl

Melting Point: Mp 44°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 182B, (*nmr*)

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Heilbron, I.M. *et al.*, *J.C.S.*, 1943, 264, (*synth*)

Petrov, A.D. *et al.*, *CA*, 1945, **39**, 4585, (*synth*)

Yamamoto, Y. *et al.*, *Chem. Comm.*, 1976, 672, (*synth*)

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