



>>Entry Name: 1-Decanol

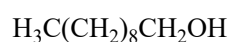
ENTRY UNDER REVIEW

Synonym(s): Decyl alcohol. Paranol

CAS Registry Number: 112-30-1

Related CAS Registry Numbers(s): 25339-17-7

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



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%

Biological Source: Isol. from plant sources, eg. citrus oils. Manuf. by catalytic redn. of coconut fatty acids or esters or by Ziegler process

Use/Importance: Has moderate antifoam activity. Used in manuf. of plasticizers, synthetic lubricants, petroleum additives, herbicides, surface active agents and solvents.

Alcohol and esters are perfume and flavour ingredients. Anal. reagent for esterification of fatty acids for glc anal. Used alone or in combination with 1-Octanol [HJC69-S](#) for control of tobacco suckers

Physical Description: Oil

Melting Point: Fp 7°

Boiling Point: Bp₇₀₀ 232-239°. Bp₇ 107-108°

Other Data: Isodecanol is a mixture of decanol isomers marketed as a solvent

Hazard & Toxicity: Fl. p. 82°, autoignition temp. 288°. Eye and skin irritant. LD₅₀ (rat, orl) 4720 mg/kg.

Aldrich: 15058-4

Fluka: 30610

Sigma: D0634

Supelco: R60-0238

>>Derivative: Formyl

CAS Registry Number: 5451-52-5

Molecular Formula: $\text{C}_{11}\text{H}_{22}\text{O}_2$

Molecular Weight: 186.294

Accurate Mass: 186.16198

Percentage Composition: C 70.92%; H 11.90%; O 17.18%

Physical Description: Liq.

Boiling Point: Bp₇₂₇ 240-243°

>>Derivative: Ac

Synonym(s): Decyl acetate

CAS Registry Number: 112-17-4

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%

Biological Source: Constit. of numerous plant spp.

Physical Description: Liq.

Melting Point: Mp -15°

Boiling Point: Bp 244°. Bp₁₀ 130°

Aldrich: W23670-5

Rare Chemicals Library: S35994-7

Sigma: D8759

>>Derivative: 4-Nitrobenzoyl

CAS Registry Number: 6500-30-7

Melting Point: Mp 57°

>>Derivative: 3,5-Dinitrobenzoyl

CAS Registry Number: 10574-44-4

Melting Point: Mp 52°