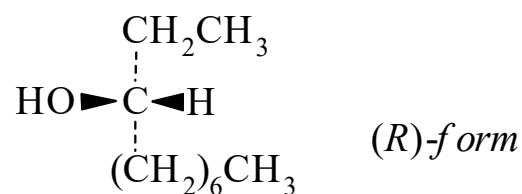




>>Entry Name: 3-Decanol, 9CI



CAS Registry Number: 1565-81-7

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

Molecular Formula: C₁₀H₂₂O

Molecular Weight: 158.283

Accurate Mass: 158.167065

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

Rare Chemicals Library: S42959-7

>>Variant: (R)-form

Molecular Formula: C₁₀H₂₂O

Molecular Weight: 158.283

Accurate Mass: 158.167065

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

Boiling Point: Bp₁₅ 108°

Optical Rotation: [α]_D²⁰ −10.55 (c, 5 in EtOH)

>>Variant: (±)-form

CAS Registry Number: 74683-67-3

Molecular Formula: C₁₀H₂₂O

Molecular Weight: 158.283

Accurate Mass: 158.167065

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

Melting Point: Mp −7.5°

Boiling Point: Bp 213°. Bp₁₂ 101°

>>Derivative: 1-Naphthylurethane

Melting Point: Mp 60-62°

>>Derivative: Et ether

Synonym(s): 3-Ethoxydecane

Molecular Formula: C₁₂H₂₆O

Molecular Weight: 186.337

Accurate Mass: 186.198365

Percentage Composition: C 77.35%; H 14.06%; O 8.59%

Boiling Point: Bp_{9.5} 89.5°

References:

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Asinger, F. *et al.*, *Chem. Ber.*, 1959, **92**, 3085, (*synth*)

Godsey, C.E., *Anal. Chem.*, 1966, **38**, 842, (*nmr*)

Remberg, G. *et al.*, *Chem. Ber.*, 1970, **103**, 3640, (*ms*)