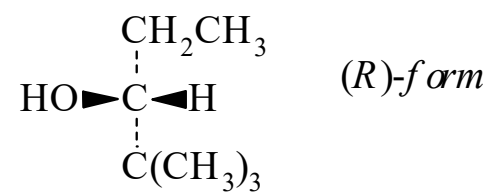




>>Entry Name: 2,2-Dimethyl-3-pentanol

Synonym(s): *tert*-Butylethylcarbinol



CAS Registry Number: 3970-62-5

Molecular Formula: C₇H₁₆O

Molecular Weight: 116.203

Accurate Mass: 116.120115

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

Aldrich: D17362-2

>>Variant: (*R*)-form

CAS Registry Number: 38636-36-1

Molecular Formula: C₇H₁₆O

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 132-135°. Bp₁₅ 42-44°

Refractive Index: n_D²⁰ 1.4230

>>Derivative: Ac

Molecular Formula: C₉H₁₈O₂

Molecular Weight: 158.24

Accurate Mass: 158.13068

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

Boiling Point: Bp₃₈ 74°

Optical Rotation: [α]_D²⁴ +12.16 (neat)

Density: d₄²³ 0.856

Refractive Index: n_D²⁰ 1.4103

>>Variant: (±)-form

Molecular Formula: C₇H₁₆O

Molecular Weight: 116.203

Accurate Mass: 116.120115

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

Physical Description: Liq. with camphoraceous odour

Boiling Point: Bp 132-135°

Density: d₄⁰ 0.841

>>Derivative: Ac

CAS Registry Number: 39511-81-4

Physical Description: Liq.

Boiling Point: Bp₇₇₀ 157-159°

References:

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