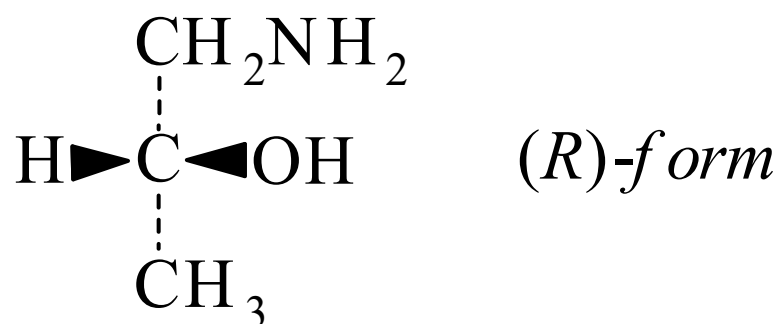




>>Entry Name: 1-Amino-2-propanol

Synonym(s): 2-Hydroxypropylamine. Isopropanolamine. Monoisopropanolamine. MIPA



CAS Registry Number: 78-96-6

Related CAS Registry Numbers(s): 29868-06-2

Molecular Formula: C₃H₉NO

Molecular Weight: 75.11

Accurate Mass: 75.068414

Percentage Composition: C 47.97%; H 12.08%; N 18.65%; O 21.30%

Hazard & Toxicity: Fl. p. 75°, autoignition temp. 374°. Skin and severe irritant. LD₅₀ (rbt, skn) 1640 mg/kg

Aldrich: 11024-8

Fluka: 9280

Sigma: A5911

>>Variant: (R)-form

CAS Registry Number: 2799-16-8

Molecular Formula: C₃H₉NO

Molecular Weight: 75.11

Accurate Mass: 75.068414

Percentage Composition: C 47.97%; H 12.08%; N 18.65%; O 21.30%

Physical Description: Thick oil

Boiling Point: Bp 160°

Optical Rotation: [α]_D −19 (c, 1.78 in H₂O) (ca. 100% op). [α]_D²⁰ −25.8 (c, 1.83 in EtOH)

Aldrich: 23885-6

Fluka: 9281

Sigma: A1531

>>Derivative: O,N-Dibenzoyl

Molecular Formula: C₁₇H₁₇NO₃

Molecular Weight: 283.326

Accurate Mass: 283.120844

Percentage Composition: C 72.07%; H 6.05%; N 4.94%; O 16.94%

Melting Point: Mp 73-74°

Optical Rotation: [α]_D²⁴ −72 (EtOH)

>>Variant: (S)-form

CAS Registry Number: 2799-17-9

Molecular Formula: C₃H₉NO

Molecular Weight: 75.11

Accurate Mass: 75.068414

Percentage Composition: C 47.97%; H 12.08%; N 18.65%; O 21.30%

Melting Point: Mp 24-26°

Boiling Point: Bp 160°

Optical Rotation: [α]_D²⁰ +23.6 (c, 1 in MeOH)

Refractive Index: n_D²⁰ 1.4437

Aldrich: 23886-4

Fluka: 9283

Sigma: A1656