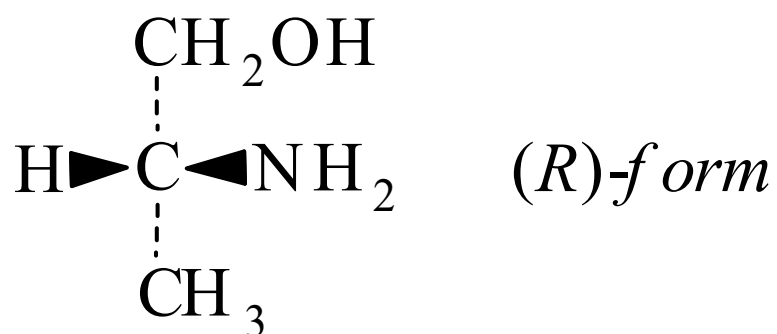




>>Entry Name: 2-Amino-1-propanol, 9CI

Synonym(s): Alaninol. 2-Hydroxyisopropylamine



CAS Registry Number: 78-91-1

Related CAS Registry Numbers(s): 15521-18-3 27646-78-2 40916-61-8 40916-69-6 40916-73-2 54490-98-1 57707-57-0 92596-51-5

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%

>>Variant: (R)-form

CAS Registry Number: 35320-23-1

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%

Aldrich: 29768-2

Fluka: 5225

Sigma: A4916

>>Derivative: N-Ac

Molecular Formula: C₅H₁₁NO₂

Molecular Weight: 117.147

Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%

Physical Description: Cryst.

Melting Point: Mp 48-49°

Optical Rotation: $[\alpha]_{\text{D}}^{22} +21.7$ (c, 3.2 in CHCl₃)

>>Derivative: N-Benzyl

CAS Registry Number: 74609-49-7

Molecular Formula: C₁₀H₁₅NO

Molecular Weight: 165.235

Accurate Mass: 165.115364

Percentage Composition: C 72.69%; H 9.15%; N 8.48%; O 9.68%

Melting Point: Mp 47-49°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -44.25$

>>Derivative: N-Benzyl; hydrochloride

Melting Point: Mp 136-138°

Optical Rotation: $[\alpha]_{\text{D}}^{21} -14.75$

>>Derivative: N,N-Di-Me

CAS Registry Number: 55197-05-2

Molecular Formula: C₅H₁₃NO

Molecular Weight: 103.164

Accurate Mass: 103.099714

Percentage Composition: C 58.21%; H 12.70%; N 13.58%; O 15.51%

Boiling Point: Bp₁₉ 44-47°

Optical Rotation: $[\alpha]_{\text{D}}^{23.5} -3.83$ (c, 2.9 in EtOH)