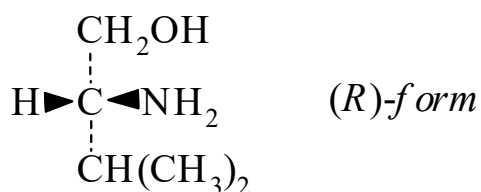




>>Entry Name: 2-Amino-3-methyl-1-butanol, 9CI

Synonym(s): Valinol. 2-Aminoisoamyl alcohol



CAS Registry Number: 473-75-6

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%

Aldrich: 18483-7

>>Variant: (R)-form

Synonym(s): D-form

CAS Registry Number: 4276-09-9

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%

Aldrich: 28448-3

Fluka: 94674

Sigma: A6789

>>Derivative: Hydrochloride

Physical Description: Plates (Me₂CO)

Melting Point: Mp 113°

Optical Rotation: $[\alpha]_{\text{Hg}}^{20} -16.5$ (H₂O)

>>Derivative: Dibenzoyl

Molecular Formula: C₁₉H₂₁NO₃

Molecular Weight: 311.38

Accurate Mass: 311.152144

Percentage Composition: C 73.29%; H 6.80%; N 4.50%; O 15.41%

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 117°

Optical Rotation: $[\alpha]_{\text{Hg}}^{21} +20.2$ (Py)

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 2026-48-4

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%

Use/Importance: Used for resolution of arene-chromium carbonyl complexes

Physical Description: Cryst.

Melting Point: Mp 31-32°

Boiling Point: Bp₁₁ 88°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +15.6$ (EtOH)

Aldrich: 18670-8

Fluka: 94672

Sigma: V4127

>>Derivative: Hydrochloride

Physical Description: Plates (Me₂CO)

Melting Point: Mp 117-118°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +14.25$ (H₂O)