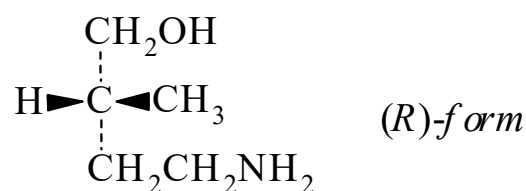




>>Entry Name: 4-Amino-2-methyl-1-butanol, 9CI



CAS Registry Number: 44565-27-7

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%

>>Variant: (R)-form

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%

>>Derivative: Oxalate

Melting Point: Mp 179-180°

Optical Rotation: $[\alpha]_{\text{D}}^{23} +15.4$ (EtOH aq.)

>>Variant: (S)-form

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%

>>Derivative: Oxalate

Optical Rotation: $[\alpha]_{\text{D}}^{24} -14.7$ (EtOH aq.)

>>Variant: (±)-form

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%

>>Derivative: Picrolonate

Melting Point: Mp 226-229°

Other Data: Sinters >220°

References:

- Adams, R. *et al.*, *J.A.C.S.*, 1959, **81**, 4946, (*abs config*)
Schreiber, K. *et al.*, *Annalen*, 1964, **671**, 154, (*synth*)
Fujii, T. *et al.*, *Tet. Lett.*, 1972, 3075, (*use*)
Chen, S.C. *et al.*, *Experientia*, 1981, **37**, 543, (*synth*)
Chen, S.C. *et al.*, *Agric. Biol. Chem.*, 1982, **46**, 2361, (*cmr*)