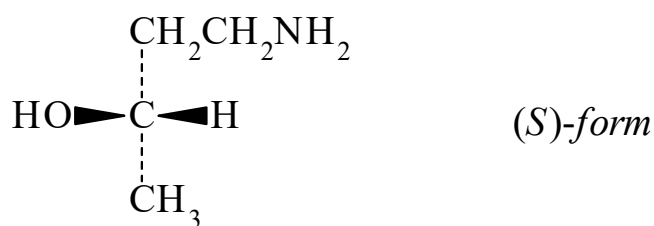




>>Entry Name: 4-Amino-2-butanol, 9Cl

Synonym(s): 3-Hydroxybutylamine



CAS Registry Number: 39884-48-5

Molecular Formula: C₄H₁₁NO

Molecular Weight: 89.137

Accurate Mass: 89.084064

Percentage Composition: C 53.90%; H 12.44%; N 15.71%; O 17.95%

>>Variant: (S)-form

Molecular Formula: C₄H₁₁NO

Molecular Weight: 89.137

Accurate Mass: 89.084064

Percentage Composition: C 53.90%; H 12.44%; N 15.71%; O 17.95%

Physical Description: Liq.

Optical Rotation: $[\alpha]_{\text{D}}^{22} +13.3$

>>Derivative: Hydrochloride

Optical Rotation: $[\alpha]_{\text{D}}^{22} +11.8$ (c, 13.3 in H₂O)

>>Variant: (±)-form

Molecular Formula: C₄H₁₁NO

Molecular Weight: 89.137

Accurate Mass: 89.084064

Percentage Composition: C 53.90%; H 12.44%; N 15.71%; O 17.95%

Boiling Point: Bp 172°

>>Derivative: Et ether

Molecular Formula: C₆H₁₅NO

Molecular Weight: 117.191

Accurate Mass: 117.115364

Percentage Composition: C 61.49%; H 12.90%; N 11.95%; O 13.65%

Boiling Point: Bp 148°

References:

Levene, P.A. *et al.*, *J. Biol. Chem.*, 1926, **69**, 165; 569

Robinson, R. *et al.*, *J.C.S.*, 1932, 307, (*synth*)

Lemieux, R.U. *et al.*, *Can. J. Chem.*, 1951, **29**, 678, (*abs config*)