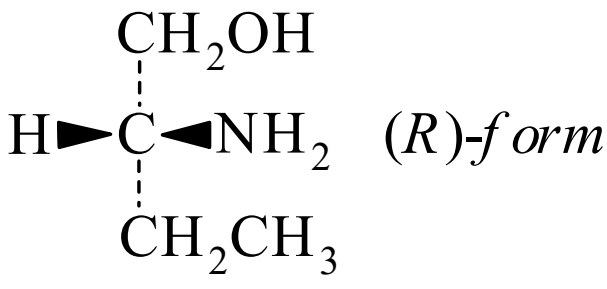
>>**Entry Name: 2-Amino-1-butanol,** 9CI



CAS Registry Number: 96-20-8

Molecular Formula: $C_4H_{11}NO$
Molecular Weight: 89.137
Accurate Mass: 89.084064
Percentage Composition: C 53.90%; H 12.44%; N 15.71%; O 17.95%
Use/Importance: Cheaply available intermed. which can be readily resolved on an industrial scale
Other Data: The parent amine has too low a m.w. to give cryst. salts with most acids and the *O*-benzyl deriv. is recommended as a resolving agent (Touet *et al*)
Hazard & Toxicity: Fl. p. 74° (oc). LD_{50} (mus, orl) 2300 mg/kg

Aldrich: A4380-4
Rare Chemicals Library: S44045-0

>>**Variant:** (*R*)-form

CAS Registry Number: 5856-63-3
Molecular Formula: $C_4H_{11}NO$
Molecular Weight: 89.137
Accurate Mass: 89.084064
Percentage Composition: C 53.90%; H 12.44%; N 15.71%; O 17.95%
Aldrich: 30708-4
Fluka: 7180
Sigma: A4795

>>**Derivative:** Oxalate

Optical Rotation: $[\alpha]_D^{20}$ –11.3 (H_2O)

>>**Derivative:** *O*-Benzyl

Molecular Formula: $C_{11}H_{17}NO$
Molecular Weight: 179.261
Accurate Mass: 179.131014
Percentage Composition: C 73.70%; H 9.56%; N 7.81%; O 8.93%
Use/Importance: Resolving agent
Physical Description: Viscous oil
Optical Rotation: $[\alpha]_D$ –18.9 (c, 1.5 in EtOH)

>>**Derivative:** *O*-Benzyl; hydrochloride

Physical Description: Cryst.
Optical Rotation: $[\alpha]_D$ –18 (c, 1.1 in EtOH)

>>**Variant:** (*S*)-form

CAS Registry Number: 5856-62-2
Molecular Formula: $C_4H_{11}NO$
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_{11} 80°
Optical Rotation: $[\alpha]_D^{20}$+9.8 (H_2O)
Aldrich: 13252-7
Fluka: 7178

>>**Derivative:** Oxalate

Melting Point: Mp 190-192°
Optical Rotation: [α]