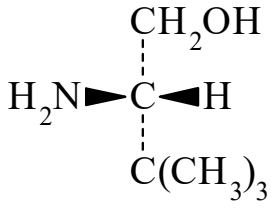
>>**Entry Name: 2-Amino-3,3-dimethyl-1-butanol,** 9CI
Synonym(s): *tert*-Leucinol



(*S*)-*form*

CAS Registry Number: 3907-02-6

Molecular Formula: $C_6H_{15}NO$
Molecular Weight: 117.191
Accurate Mass: 117.115364
Percentage Composition: C 61.49%; H 12.90%; N 11.95%; O 13.65%
Use/Importance: Important synthon for asymmetric synthesis, showing high stereoselectivity

>>**Variant:** (*R*)-form
Synonym(s): D-form

CAS Registry Number: 112245-09-7
Molecular Formula: $C_6H_{15}NO$
Molecular Weight: 117.191
Accurate Mass: 117.115364
Percentage Composition: C 61.49%; H 12.90%; N 11.95%; O 13.65%
Melting Point: Mp 28-36°
Boiling Point: Bp_{19} 100°
Optical Rotation: $[\alpha]_D^{20}$ –38.1 (c, 2.0 in EtOH)

>>**Variant:** (*S*)-form
Synonym(s): L-form

CAS Registry Number: 112245-13-3
Molecular Formula: $C_6H_{15}NO$
Molecular Weight: 117.191
Accurate Mass: 117.115364
Percentage Composition: C 61.49%; H 12.90%; N 11.95%; O 13.65%
Physical Description: Oil, solidifying on cooling
Boiling Point: Bp_{20} 90-92°
Optical Rotation: $[\alpha]_D$ +37 (c, 1 in EtOH)
Aldrich: 40773-9
Fluka: 61925
Sigma: L4406

>>**Variant:** (±)-form

CAS Registry Number: 93684-72-1
Molecular Formula: $C_6H_{15}NO$
Molecular Weight: 117.191
Accurate Mass: 117.115364
Percentage Composition: C 61.49%; H 12.90%; N 11.95%; O 13.65%
Physical Description: Liq.
Boiling Point: Bp_{22} 102-103°
Refractive Index: n_D^{25} 1.4482

>>**Derivative:** Sulfate

CAS Registry Number: 42163-45-1
Physical Description: Solid
Melting Point: Mp 278-279°

References:

Pracejus, H. *et al.*, *Chem. Ber.*, 1964, **97**, 3173, *(synth)*
Bafford, R.A. *et al.*, *Bull. Soc. Chim. Fr.*, 1973, 971, *(synth, deriv)*
Romo, D. *et al.*, *Tetrahedron*, 1990, **46**, 4951, *(synth, pmr, cmr)*
Drauz, K. *et al.*, *Chem. Eur. J.*, 1995, **1**, 540, *(synth, resoln, bibl)*
Evans, D.A. *et al.*, *J.O.C.*, 1998, **63**, 4541-4544, *(S-form, synth, ir, pmr, cmr)*