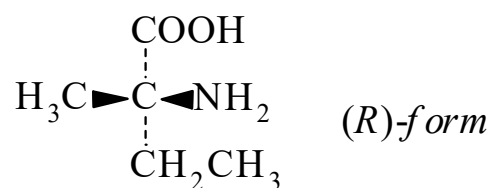




>>Entry Name: 2-Amino-2-methylbutanoic acid
Synonym(s): Isovaline, 9Cl, 8Cl. 2-Ethylalanine. Iva



CAS Registry Number: 465-58-7
Related CAS Registry Numbers(s): 37432-10-3 73473-40-2 76727-06-5 78410-93-2

Molecular Formula: $\text{C}_5\text{H}_{11}\text{NO}_2$
Molecular Weight: 117.147
Accurate Mass: 117.078979
Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%

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

CAS Registry Number: 3059-97-0

Molecular Formula: $\text{C}_5\text{H}_{11}\text{NO}_2$
Molecular Weight: 117.147
Accurate Mass: 117.078979
Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%
Biological Source: Constit. of various peptide antibiotics e.g. Antiamebin [CKT61-V](#) and Trichotoxin A40 [BQM08-G](#)
Physical Description: Cryst.
Melting Point: Mp 300°
Optical Rotation: $[\alpha]_{\text{D}} -11.28$ (c, 5 in H_2O) (100% ee)
Other Data: Sublimes

>>Derivative: Me ester; hydrochloride (1:1)

CAS Registry Number: 118725-00-1
Boiling Point: Bp_{10} 55-62°
Optical Rotation: $[\alpha]_{\text{D}} -9.2$ (c, 3 in CHCl_3)

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

CAS Registry Number: 595-40-4
Molecular Formula: $\text{C}_5\text{H}_{11}\text{NO}_2$
Molecular Weight: 117.147
Accurate Mass: 117.078979
Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%
Physical Description: Needles + $1\text{H}_2\text{O}$
Optical Rotation: $[\alpha]_{\text{D}}^{25} +10.7$ (H_2O)
Other Data: Sublimes

>>Derivative: Hydrochloride (1:1)

CAS Registry Number: 43177-22-6
Physical Description: Cryst. (EtOH)
Melting Point: Mp 220 dec.°

>>Variant: (±)-form

CAS Registry Number: 595-39-1
Molecular Formula: $\text{C}_5\text{H}_{11}\text{NO}_2$
Molecular Weight: 117.147
Accurate Mass: 117.078979
Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%
Physical Description: Needles
Melting Point: Mp 315° (305°)
Boiling Point: Subl. 300°
Solubility: Sol. H_2O , spar. sol. EtOH