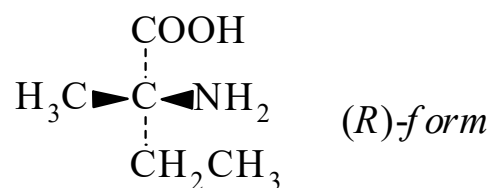




>>Entry Name: 2-Amino-2-methylbutanoic acid  
Synonym(s): Isovaline, 9Cl, 8Cl. 2-Ethylalanine. Iva



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  $\text{H}_2\text{O}$ ) (100% ee)  
Other Data: Sublimes

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

CAS Registry Number: 118725-00-1  
Boiling Point:  $\text{Bp}_{10}$  55-62°  
Optical Rotation:  $[\alpha]_{\text{D}} -9.2$  (c, 3 in  $\text{CHCl}_3$ )

>>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:  $[\alpha]_{\text{D}}^{25} +10.7$  ( $\text{H}_2\text{O}$ )  
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.  $\text{H}_2\text{O}$ , spar. sol. EtOH