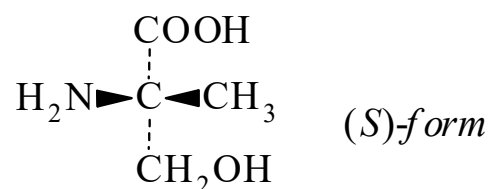




>>Entry Name: 2-Amino-3-hydroxy-2-methylpropanoic acid

Synonym(s): 2-Methylserine, 9Cl, 8Cl. α -Methylserine



CAS Registry Number: 3398-40-1

Molecular Formula: $C_4H_9NO_3$

Molecular Weight: 119.12

Accurate Mass: 119.058244

Percentage Composition: C 40.33%; H 7.62%; N 11.76%; O 40.29%

Rare Chemicals Library: S35353-1

>>Variant: (R)-form

CAS Registry Number: 81132-44-7

Molecular Formula: $C_4H_9NO_3$

Molecular Weight: 119.12

Accurate Mass: 119.058244

Percentage Composition: C 40.33%; H 7.62%; N 11.76%; O 40.29%

Melting Point: Mp 242-245 dec. $^{\circ}$

Optical Rotation: $[\alpha]_D^{20} -6.2$ (c, 1 in H_2O)

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 16820-18-1

Molecular Formula: $C_4H_9NO_3$

Molecular Weight: 119.12

Accurate Mass: 119.058244

Percentage Composition: C 40.33%; H 7.62%; N 11.76%; O 40.29%

Biological Source: Constit. of *Sphagnum palustre*. Component of Amicetin [CKN27-L](#)

Melting Point: Mp 264 dec. $^{\circ}$

Optical Rotation: $[\alpha]_D^{22} +6.3$ (c, 1 in H_2O)

>>Variant: ($\pm$)-form

CAS Registry Number: 5424-29-3

Molecular Formula: $C_4H_9NO_3$

Molecular Weight: 119.12

Accurate Mass: 119.058244

Percentage Composition: C 40.33%; H 7.62%; N 11.76%; O 40.29%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 255 $^{\circ}$. Mp 268-272 $^{\circ}$

Sigma: M6877

>>Derivative: O,N-Di-Ac

Molecular Formula: $C_8H_{13}NO_5$

Molecular Weight: 203.194

Accurate Mass: 203.079374

Percentage Composition: C 47.29%; H 6.45%; N 6.89%; O 39.37%

Physical Description: Pillars

Melting Point: Mp 183 $^{\circ}$

References: