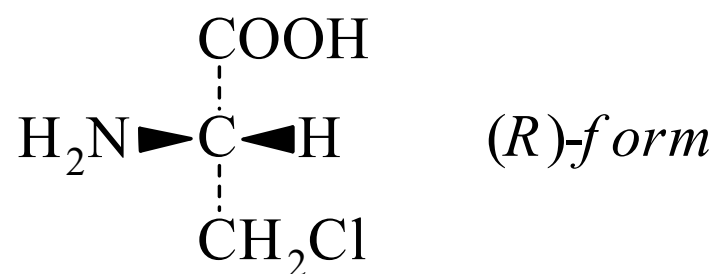




>>Entry Name: 2-Amino-3-chloropropanoic acid

Synonym(s): 3-Chloroalanine, 9Cl, 8Cl



CAS Registry Number: 3981-36-0

Molecular Formula: C₃H₆ClNO₂

Molecular Weight: 123.539

Accurate Mass: 123.008706

Percentage Composition: C 29.17%; H 4.90%; Cl 28.70%; N 11.34%; O 25.90%

>>Variant: (R)-form

Synonym(s): L-form

CAS Registry Number: 2731-73-9

Molecular Formula: C₃H₆ClNO₂

Molecular Weight: 123.539

Accurate Mass: 123.008706

Percentage Composition: C 29.17%; H 4.90%; Cl 28.70%; N 11.34%; O 25.90%

Optical Rotation: $[\alpha]_{\text{D}}^{20} -17.7$ (c, 7.36 in H₂O)

Other Data: Dec. >170° without melting

>>Derivative: Hydrochloride

CAS Registry Number: 51887-89-9

Optical Rotation: $[\alpha]_{\text{D}}^{20} +0.7$ (H₂O)

Other Data: Dec. >190° without melting

Aldrich: 28532-3

Sigma: C9033

>>Derivative: Me ester

Molecular Formula: C₄H₈ClNO₂

Molecular Weight: 137.565

Accurate Mass: 137.024356

Percentage Composition: C 34.92%; H 5.86%; Cl 25.77%; N 10.18%; O 23.26%

Melting Point: Mp 157 dec.° (as hydrochloride)

>>Variant: (±)-form

CAS Registry Number: 13215-35-5

Molecular Formula: C₃H₆ClNO₂

Molecular Weight: 123.539

Accurate Mass: 123.008706

Percentage Composition: C 29.17%; H 4.90%; Cl 28.70%; N 11.34%; O 25.90%

Melting Point: Mp 160 dec.°

Sigma: C9262

>>Derivative: Hydrochloride

CAS Registry Number: 35401-46-8

Physical Description: Needles

Melting Point: Mp 172° (dec.)

Sigma: C9517

>>Derivative: Me ester; hydrochloride

Melting Point: Mp 134 dec.°

References: