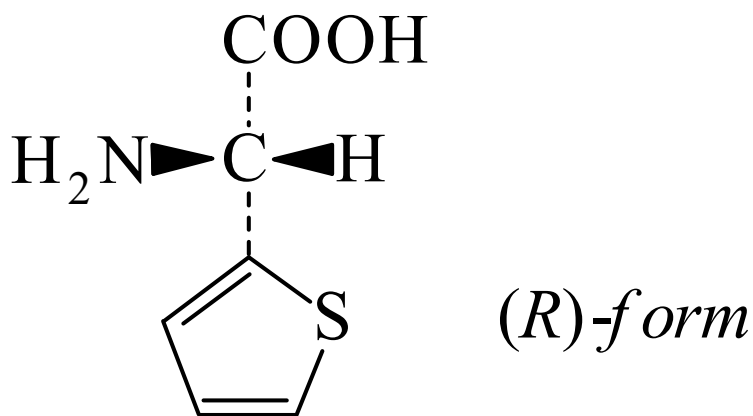




>>Entry Name: 2-Amino-2-(2-thienyl)acetic acid

Synonym(s): α -Amino-2-thiopheneacetic acid, 9CI. 2-(2-Thienyl)glycine



Related CAS Registry Numbers(s): 4052-59-9 43189-45-3

Molecular Formula: C₆H₇NO₂S

Molecular Weight: 157.193

Accurate Mass: 157.019749

Percentage Composition: C 45.85%; H 4.49%; N 8.91%; O 20.36%; S 20.40%

>>Variant: (*R*)-form

Synonym(s): L-form

CAS Registry Number: 65058-23-3

Molecular Formula: C₆H₇NO₂S

Molecular Weight: 157.193

Accurate Mass: 157.019749

Percentage Composition: C 45.85%; H 4.49%; N 8.91%; O 20.36%; S 20.40%

Melting Point: Mp 202-204°

Optical Rotation: $[\alpha]_{\text{D}}^{23} +73.4$ (c, 1 in H₂O)

Sigma: T8278

>>Variant: (*S*)-form

Synonym(s): D-form

CAS Registry Number: 43189-45-3

Molecular Formula: C₆H₇NO₂S

Molecular Weight: 157.193

Accurate Mass: 157.019749

Percentage Composition: C 45.85%; H 4.49%; N 8.91%; O 20.36%; S 20.40%

Melting Point: Mp 202-204° (189-191°)

Optical Rotation: $[\alpha]_{\text{D}}^{23} -74.7$ (c, 1 in H₂O)

Sigma: T8028

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

CAS Registry Number: 21124-40-3

Molecular Formula: C₆H₇NO₂S

Molecular Weight: 157.193

Accurate Mass: 157.019749

Percentage Composition: C 45.85%; H 4.49%; N 8.91%; O 20.36%; S 20.40%

Physical Description: Cryst.

Melting Point: Mp 210-212°

Aldrich: 18880-8

Fluka: 9487

Sigma: T8153

>>Derivative: Nitrile

Synonym(s): α -Aminothiopheneacetonitrile

CAS Registry Number: 93554-88-2

Molecular Formula: C₆H₆N₂S

Molecular Weight: 138.193

Accurate Mass: 138.025168

Percentage Composition: C 52.15%; H 4.38%; N 20.27%; S 23.20%

Melting Point: Mp 172-173° (as hydrochloride)

References: