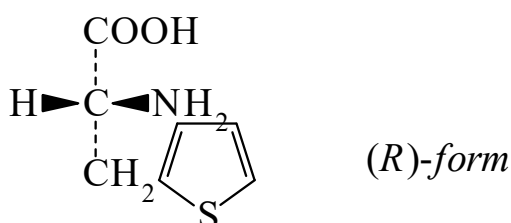




>> **Name:** 2-Amino-3-(2-thienyl)propanoic acid

Synonym(s): α -Amino-2-thiophenepropanoic acid. β -2-Thienylalanine



Molecular Formula: C₇H₉NO₂S

Molecular Weight: 171.22

Accurate Mass: 171.035399

Percentage Composition: C 49.10%; H 5.30%; N 8.18%; O 18.69%; S 18.73%

Use/Importance: Phenylalanine analogue, growth inhibitor

>> **Variant:** (*R*)-form

Synonym(s): D-form

Molecular Formula: C₇H₉NO₂S

Molecular Weight: 171.22

Accurate Mass: 171.035399

Percentage Composition: C 49.10%; H 5.30%; N 8.18%; O 18.69%; S 18.73%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 265-266 dec.°

Optical Rotation: $[\alpha]_D^{25} +31.49$ (c, 1 in H₂O)

>> **Variant:** (*S*)-form

Synonym(s): L-form

CAS Registry Number: 22951-96-8

Molecular Formula: C₇H₉NO₂S

Molecular Weight: 171.22

Accurate Mass: 171.035399

Percentage Composition: C 49.10%; H 5.30%; N 8.18%; O 18.69%; S 18.73%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 266-267 dec.°

Optical Rotation: $[\alpha]_D^{29} -31.5$ (c, 1 in H₂O)

Aldrich: 28215-4

Fluka: 88424

Sigma: T3519

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

CAS Registry Number: 2021-58-1

Molecular Formula: C₇H₉NO₂S

Molecular Weight: 171.22

Accurate Mass: 171.035399

Percentage Composition: C 49.10%; H 5.30%; N 8.18%; O 18.69%; S 18.73%

Melting Point: Mp 273°

Aldrich: 28728-8

Fluka: 88425

Sigma: T4875

References:

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