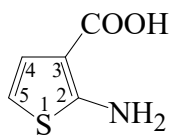




>>Entry Name: 2-Amino-3-thiophenecarboxylic acid



CAS Registry Number: 56387-08-7

Related CAS Registry Numbers(s): 31891-09-5 43028-64-4 59739-05-8 179762-38-0

Molecular Formula: C₅H₅NO₂S

Molecular Weight: 143.166

Accurate Mass: 143.004099

Percentage Composition: C 41.95%; H 3.52%; N 9.78%; O 22.35%; S 22.40%

>>Derivative: Me ester

CAS Registry Number: 4651-81-4

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. (petrol)

Melting Point: Mp 77-78°

>>Derivative: Et ester

CAS Registry Number: 31891-06-2

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. (EtOAc/hexane)

Melting Point: Mp 46-48°

>>Derivative: *tert*-Butyl ester

CAS Registry Number: 59739-05-8

Molecular Formula: C₉H₁₃NO₂S

Molecular Weight: 199.273

Accurate Mass: 199.066699

Percentage Composition: C 54.25%; H 6.58%; N 7.03%; O 16.06%; S 16.09%

Physical Description: Cryst. (hexane)

Melting Point: Mp 53-54°

>>Derivative: Amide

CAS Registry Number: 14080-51-4

Molecular Formula: C₅H₆N₂OS

Molecular Weight: 142.181

Accurate Mass: 142.020083

Percentage Composition: C 42.24%; H 4.25%; N 19.70%; O 11.25%; S 22.55%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 160°

Boiling Point: Subl._{0.5} 160°

>>Derivative: Nitrile

Synonym(s): 2-Amino-3-cyanothiophene

CAS Registry Number: 4651-82-5

Molecular Formula: C₅H₄N₂S

Molecular Weight: 124.166

Accurate Mass: 124.009518

Percentage Composition: C 48.37%; H 3.25%; N 22.56%; S 25.83%

Use/Importance: Used in prepn. of diazo dyes

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 104-105°