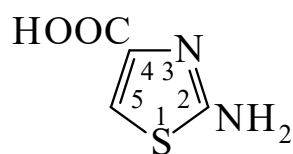




>> 7 Name: 2-Amino-4-thiazolecarboxylic acid, 9CI



CAS Registry Number: 40283-41-8

Molecular Formula: C₄H₄N₂O₂S

Molecular Weight: 144.154

Accurate Mass: 143.999348

Percentage Composition: C 33.33%; H 2.80%; N 19.43%; O 22.20%; S 22.24%

>>Derivative: Hydrobromide

Physical Description: Cryst. solid

>>Derivative: Et ester

CAS Registry Number: 5398-36-7

Molecular Formula: C₆H₈N₂O₂S

Molecular Weight: 172.207

Accurate Mass: 172.030648

Percentage Composition: C 41.85%; H 4.68%; N 16.27%; O 18.58%; S 18.62%

Melting Point: Mp 174.5-175.5°

>>Derivative: N-Formyl

CAS Registry Number: 123724-92-5

Molecular Formula: C₅H₄N₂O₃S

Molecular Weight: 172.164

Accurate Mass: 171.994263

Percentage Composition: C 34.88%; H 2.34%; N 16.27%; O 27.88%; S 18.63%

Physical Description: Solid

Melting Point: Mp 287-289°

>>Derivative: N-Formyl, Et ester

CAS Registry Number: 123724-91-4

Molecular Formula: C₇H₈N₂O₃S

Molecular Weight: 200.218

Accurate Mass: 200.025563

Percentage Composition: C 41.99%; H 4.03%; N 13.99%; O 23.97%; S 16.02%

Physical Description: Solid

Melting Point: Mp 215-218°

References:

Steude, M., *Annalen*, 1891, **261**, 22, (*synth*)

Sprague, J.M. *et al.*, *J.A.C.S.*, 1946, **68**, 266, (*synth*)

Rao, K.E. *et al.*, *J.O.C.*, 1990, **55**, 728, (*derivs, synth, ir, pmr, ms*)

Kelly, T.R. *et al.*, *J.O.C.*, 1996, **61**, 4623, (*Et ester, synth, pmr, cmr, ir*)