



>> Name: 4-Amino-2-thiophenecarboxylic acid

CAS Registry Number: 89499-38-7

Structure by analogy with 2-Amino-3-thiophenecarboxylic acid, [GLO38-T](#)

Molecular Formula: $C_5H_5NO_2S$

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: Hydrochloride

CAS Registry Number: 89499-33-2

Melting Point: Mp 255-258°

>>Derivative: *N*-Ac

CAS Registry Number: 95576-96-8

Physical Description: Long needles (H₂O)

Melting Point: Mp 272-273°

>>Derivative: *N*-Ac, Me ester

Molecular Formula: $C_8H_9NO_3S$

Molecular Weight: 199.23

Accurate Mass: 199.030314

Percentage Composition: C 48.23%; H 4.55%; N 7.03%; O 24.09%; S 16.09%

Melting Point: Mp 135-136°

References:

Steinkopf, W. *et al.*, *Annalen*, 1926, **448**, 210-222, (*synth*)

Goldfarb, Ya.L. *et al.*, *J. Gen. Chem. USSR (Engl. Transl.)*, 1959, **29**, 3596, (*synth*)

Goldfarb, Ya.L. *et al.*, *Khim. Geterotsikl. Soedin.*, 1983, 1626-1629; *CA*, **100**, 156449x, (*synth*)

Yoshizumi, K. *et al.*, *Chem. Pharm. Bull.*, 1997, **45**, 2005-2010, (*Me ester, synth, pmr*)