



>>Entry Name: 4-Chloro-2-thiophenecarboxylic acid, 9CI

CAS Registry Number: 59614-95-8

Structure by analogy with 2-Chloro-3-thiophenecarboxylic acid, [GDH36-E](#)

Molecular Formula: C₅H₃ClO₂S

Molecular Weight: 162.596

Accurate Mass: 161.954227

Percentage Composition: C 36.94%; H 1.86%; Cl 21.80%; O 19.68%; S 19.72%

Physical Description: Cryst. (CH₂Cl₂ or MeOH)

Melting Point: Mp 131-132°. Mp 138-140°

>>Derivative: Me ester

Molecular Formula: C₆H₅ClO₂S

Molecular Weight: 176.623

Accurate Mass: 175.969877

Percentage Composition: C 40.80%; H 2.85%; Cl 20.07%; O 18.12%; S 18.16%

Physical Description: Liq.

Boiling Point: Bp₂₁ 115-117°

>>Derivative: Et ester

CAS Registry Number: 59614-94-7

Molecular Formula: C₇H₇ClO₂S

Molecular Weight: 190.65

Accurate Mass: 189.985527

Percentage Composition: C 44.10%; H 3.70%; Cl 18.60%; O 16.78%; S 16.82%

References:

Iriarte, J. *et al.*, *J. Het. Chem.*, 1976, **13**, 393, (*synth*)

Satonaka, H., *Bull. Chem. Soc. Jpn.*, 1983, **56**, 2463, (*deriv*)

Raggon, J.W. *et al.*, *Org. Prep. Proced. Int.*, 1995, **27**, 233, (*synth, pmr, ir*)