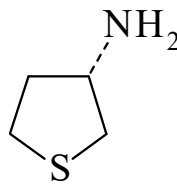




>>Entry Name: Tetrahydro-3-thiophenamine, 9Cl

Synonym(s): 3-Aminotetrahydrothiophene. 3-Aminothiolane



CAS Registry Number: 101993-01-5

Related CAS Registry Numbers(s): 92693-96-4 144710-47-4

Molecular Formula: C₄H₉NS

Molecular Weight: 103.188

Accurate Mass: 103.045569

Percentage Composition: C 46.56%; H 8.79%; N 13.57%; S 31.08%

>>Variant: (S)-form

CAS Registry Number: 144786-62-9

Molecular Formula: C₄H₉NS

Molecular Weight: 103.188

Accurate Mass: 103.045569

Percentage Composition: C 46.56%; H 8.79%; N 13.57%; S 31.08%

Physical Description: Liq.

Boiling Point: Bp₂₇ 70° (kugelrohr)

Optical Rotation: [α]_D²² -37.77 (c, 1 in Me₂CO)

Other Data: (±)-form also known

>>Derivative: Hydrochloride

Physical Description: Plates (2-propanol)

Melting Point: Mp 166.5-167°

Optical Rotation: [α]_D²² -15 (c, 2 in H₂O)

>>Derivative: N-Benzoyl

CAS Registry Number: 144710-44-1

Molecular Formula: C₁₁H₁₃NOS

Molecular Weight: 207.296

Accurate Mass: 207.071784

Percentage Composition: C 63.74%; H 6.32%; N 6.76%; O 7.72%; S 15.47%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 129°

Optical Rotation: [α]_D²⁰ -37.62 (c, 0.5 in Me₂CO)

References:

Dehmlow, E.V. *et al.*, *Synthesis*, 1992, 947, (*synth*, *ir*, *pmr*)