



>>Entry Name: 5-Thiazolemethanol, 9CI

Synonym(s): 5-(Hydroxymethyl)thiazole

CAS Registry Number: 38585-74-9

Molecular Formula: C₄H₅NOS

Molecular Weight: 115.156

Accurate Mass: 115.009184

Percentage Composition: C 41.72%; H 4.38%; N 12.16%; O 13.89%; S 27.85%

Use/Importance: Synthons for biologically active compds.

Physical Description: Pale yellow oil

Boiling Point: Bp₁₀ 140-142°. Bp_{0.2} 76°

Solubility: Mod. sol. H₂O

>>Derivative: Hydrochloride

Physical Description: Needles (EtOH)

Melting Point: Mp 83-84°

>>Derivative: Picrate

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 152-154°

>>Derivative: Ac

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: Oil

Boiling Point: Bp_{0.2} 70°

References:

Fallab, S., *Helv. Chim. Acta*, 1952, **35**, 215, (*synth, Ac*)

Kerdesky, F.A.J. *et al.*, *Synth. Commun.*, 1995, **25**, 2639; 4081, (*synth, pmr*)