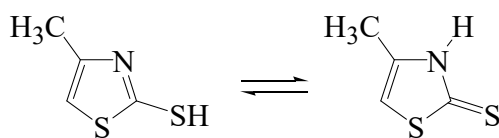




>>Entry Name: 2-Mercapto-4-methylthiazole

Synonym(s): 4-Methyl-2(3*H*)-thiazolethione, 9Cl. 4-Methyl-4-thiazoline-2-thione, 8Cl



Molecular Formula: C₄H₅NS₂

Molecular Weight: 131.222

Accurate Mass: 130.986339

Percentage Composition: C 36.61%; H 3.84%; N 10.67%; S 48.87%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 89°

>>Variant: *NH*-form

CAS Registry Number: 5685-06-3

Molecular Formula: C₄H₅NS₂

Molecular Weight: 131.222

Accurate Mass: 130.986339

Percentage Composition: C 36.61%; H 3.84%; N 10.67%; S 48.87%

>>Derivative: *N*-Hydroxy

CAS Registry Number: 49762-08-5

Molecular Formula: C₄H₅NOS₂

Molecular Weight: 147.222

Accurate Mass: 146.981254

Percentage Composition: C 32.63%; H 3.42%; N 9.51%; O 10.87%; S 43.56%

Biological Use/Importance: Antimicrobial agent

Physical Description: Needles (MeOH)

Melting Point: Mp 94-97°

Aldrich: 36319-7

>>Derivative: *N*-Me

CAS Registry Number: 5316-79-0

Molecular Formula: C₅H₇NS₂

Molecular Weight: 145.249

Accurate Mass: 145.001989

Percentage Composition: C 41.35%; H 4.86%; N 9.64%; S 44.15%

Physical Description: Powder (95% EtOH)

Melting Point: Mp 112°

References:

Roussel, C.M. *et al.*, *Bull. Soc. Chim. Fr.*, 1971, 1902, (*synth*)

Barton, D.H.R. *et al.*, *J.C.S. Perkin I*, 1986, 39, (*N-hydroxy*)

Bellec, N. *et al.*, *Acta Chem. Scand.*, 1999, **53**, 861-866, (*N-Me*)