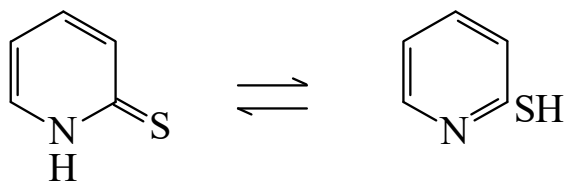




>>Entry Name: 2-Pyridinethiol, 9CI

Synonym(s): 2-Mercaptopyridine. 2(1*H*)-Pyridinethione, 9CI. 2-Thiopyridone. 2-Pyridyl mercaptan



CAS Registry Number: 2637-34-5

Related CAS Registry Numbers(s): 3811-73-2 15922-78-8

Molecular Formula: C₅H₅NS

Molecular Weight: 111.167

Accurate Mass: 111.014269

Percentage Composition: C 54.02%; H 4.53%; N 12.60%; S 28.84%

Use/Importance: Used as 2% soln. in EtOH for photometric detn. of Bi, Pd; forms coloured ppts. with Hg, Cu, Cd

Physical Description: Yellowish prisms (C₆H₆)

Melting Point: Mp 130-132° (128°)

pKa Value: p*K*_{a1} -1.07; p*K*_{a2} 10 (20°)

Hazard & Toxicity: LD₅₀ (mus, ipr) 250 mg/kg

Aldrich: M585-2

Fluka: 63840

Sigma: M1257

>>Derivative: 1-Hydroxy

>>Variant: Thione-form

Molecular Formula: C₅H₅NS

Molecular Weight: 111.167

Accurate Mass: 111.014269

Percentage Composition: C 54.02%; H 4.53%; N 12.60%; S 28.84%

>>Derivative: *N*-Me

CAS Registry Number: 2044-27-1

Molecular Formula: C₆H₇NS

Molecular Weight: 125.194

Accurate Mass: 125.029919

Percentage Composition: C 57.56%; H 5.64%; N 11.19%; S 25.61%

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 85-87°

>>Derivative: *N*-Acetoxy

Synonym(s): 1-Acetoxy-2(1*H*)-pyridinethione, 9CI

CAS Registry Number: 15922-79-9

Molecular Formula: C₇H₇NO₂S

Molecular Weight: 169.204

Accurate Mass: 169.019749

Percentage Composition: C 49.69%; H 4.17%; N 8.28%; O 18.91%; S 18.95%

Use/Importance: Used for photometric detn. of Cu

Physical Description: Cryst.

Melting Point: Mp 173-175°

>>Variant: *SH*-form

Molecular Formula: C₅H₅NS

Molecular Weight: 111.167

Accurate Mass: 111.014269

Percentage Composition: C 54.02%; H 4.53%; N 12.60%; S 28.84%