



>>Entry Name: **10*H*-Phenothiazin-2-ol**, 9CI

Synonym(s): 2-Hydroxyphenothiazine

CAS Registry Number: 24316-35-6

Related CAS Registry Numbers(s): 63226-87-9 99536-22-8 101631-10-1

Molecular Formula: C₁₂H₉NOS

Molecular Weight: 215.275

Accurate Mass: 215.040484

Percentage Composition: C 66.95%; H 4.21%; N 6.51%; O 7.43%; S 14.90%

Physical Description: Cryst. (toluene)

Melting Point: Mp 207-209°

>>Derivative: *O*-Ac

Molecular Formula: C₁₄H₁₁NO₂S

Molecular Weight: 257.312

Accurate Mass: 257.051049

Percentage Composition: C 65.35%; H 4.31%; N 5.44%; O 12.44%; S 12.46%

Physical Description: Solid

Melting Point: Mp 184°

>>Derivative: *O,N*-Di-Ac

Molecular Formula: C₁₆H₁₃NO₃S

Molecular Weight: 299.35

Accurate Mass: 299.061614

Percentage Composition: C 64.20%; H 4.38%; N 4.68%; O 16.03%; S 10.71%

Physical Description: Cryst. (C₆H₆/petrol)

Melting Point: Mp 138-140°

>>Derivative: Me ether

Synonym(s): 2-Methoxyphenothiazine

CAS Registry Number: 1771-18-2

Molecular Formula: C₁₃H₁₁NOS

Molecular Weight: 229.302

Accurate Mass: 229.056134

Percentage Composition: C 68.09%; H 4.84%; N 6.11%; O 6.98%; S 13.98%

Use/Importance: Stabiliser for acrylonitrile polymers and polyether-based urethane rubbers. Increases the light-fastness of coloured images

Physical Description: Cryst.

Melting Point: Mp 187-188°

Rare Chemicals Library: S11956-3

>>Derivative: Me-ether, *S*-oxide

CAS Registry Number: 78904-48-0

Molecular Formula: C₁₃H₁₁NO₂S

Molecular Weight: 245.301

Accurate Mass: 245.051049

Percentage Composition: C 63.65%; H 4.52%; N 5.71%; O 13.04%; S 13.07%

Physical Description: Solid

>>Derivative: Me ether, *S,S*-dioxide

CAS Registry Number: 61174-81-0

Molecular Formula: C₁₃H₁₁NO₃S

Molecular Weight: 261.301

Accurate Mass: 261.045964

Percentage Composition: C 59.76%; H 4.24%; N 5.36%; O 18.37%; S 12.27%

Physical Description: Solid by subl.

Melting Point: Mp 223-224° (211°)

References: