



Synonym(s): *N*-Methyl-*N'*-phenylthiourea, 9CI

CAS Registry Number: 2724-69-8

Molecular Formula: C₈H₁₀N₂S

Molecular Weight: 166.246

Accurate Mass: 166.056468

Percentage Composition: C 57.80%; H 6.06%; N 16.85%; S 19.29%

Physical Description: Needles

Melting Point: Mp 113°

Rare Chemicals Library: S61518-8

>>**Derivative:** 3-*N*-Me, 1-*N*-hydroxy

Synonym(s): *N*-Hydroxy-*N'*-methyl-*N*-phenylthiourea, 9CI

CAS Registry Number: 26118-56-9

Molecular Formula: C₈H₁₀N₂OS

Molecular Weight: 182.246

Accurate Mass: 182.051383

Percentage Composition: C 52.72%; H 5.53%; N 15.37%; O 8.78%; S 17.59%

Use/Importance: Used for photometric and gravimetric detn. of Cu ($\lambda_{\max}$ 430 nm, ϵ 24600); extraction-photometric detn. of Ni ($\lambda_{\max}$ 440 nm, ϵ 27200)

pKa Value: p*K*_a 11.53

>>**Derivative:** 3-*N*-Di-Me

Synonym(s): *N,N*-Dimethyl-*N'*-phenylthiourea, 9CI. Fenthuron

CAS Registry Number: 705-62-4

Molecular Formula: C₉H₁₂N₂S

Molecular Weight: 180.273

Accurate Mass: 180.072118

Percentage Composition: C 59.96%; H 6.71%; N 15.54%; S 17.79%

Physical Description: Prisms (EtOH)

Melting Point: Mp 134-135°

Rare Chemicals Library: S34730-2

>>**Derivative:** 3-*N*-Et

CAS Registry Number: 3955-58-6

Molecular Formula: C₉H₁₂N₂S

Molecular Weight: 180.273

Accurate Mass: 180.072118

Percentage Composition: C 59.96%; H 6.71%; N 15.54%; S 17.79%

Melting Point: Mp 134-136°

References:

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