



>>Entry Name: **2-Naphthalenethiol**

Synonym(s): 2-Naphthyl mercaptan. 2-Mercaptonaphthalene. β -Thionaphthol

CAS Registry Number: 91-60-1

Molecular Formula: C₁₀H₈S

Molecular Weight: 160.239

Accurate Mass: 160.03467

Percentage Composition: C 74.96%; H 5.03%; S 20.01%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 81°

Boiling Point: Bp 286°. Bp_{10.3} 146.3°

Solubility: Spar. sol. H₂O

pKa Value: pK_a 6.47 (25°)

Other Data: Spar. steam-volatile

Hazard & Toxicity: LD₅₀ (mus, orl) 385 mg/kg

Aldrich: W33140-6

Fluka: 88910

Rare Chemicals Library: S51167-6

>>Derivative: S-Ac

CAS Registry Number: 831-23-2

Molecular Formula: C₁₂H₁₀OS

Molecular Weight: 202.276

Accurate Mass: 202.045235

Percentage Composition: C 71.25%; H 4.98%; O 7.91%; S 15.85%

Melting Point: Mp 53.5°

Boiling Point: Bp₁₅ 191°

Sigma: T1264

>>Derivative: S-Me

>>Derivative: S-Et

Synonym(s): 2-(Ethylthio)naphthalene. Ethyl 2-naphthyl sulfide

CAS Registry Number: 32551-87-4

Molecular Formula: C₁₂H₁₂S

Molecular Weight: 188.293

Accurate Mass: 188.06597

Percentage Composition: C 76.55%; H 6.42%; S 17.03%

Melting Point: Mp 16°

Boiling Point: Bp₁₅ 170.5°

>>Derivative: S-Ph

References:

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