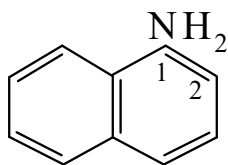




>>Entry Name: 1-Naphthylamine, 8Cl

Synonym(s): 1-Naphthalenamine, 9Cl. α -Naphthylamine. 1-Aminonaphthalene



CAS Registry Number: 134-32-7

Extra CAS Registry Numbers(s): 25168-10-9

Molecular Formula: C₁₀H₉N

Molecular Weight: 143.188

Accurate Mass: 143.073499

Percentage Composition: C 83.88%; H 6.34%; N 9.78%

Use/Importance: Coupling agent for manuf. of azo dyestuffs. Used as aq. soln. for photometric detn. of NO₂⁽⁻⁾ ($\lambda_{\max}$ 520 nm, ϵ 40000) (Griess method). Reagent for the hplc detn. of fatty acids

Physical Description: Needles (EtOH aq. or Et₂O)

Melting Point: Mp 50°

Boiling Point: Bp 300.8°

Solubility: V. sol. EtOH, Et₂O; v. spar. sol. H₂O

pKa Value: pK_a 3.94 (25°)

Other Data: Sublimes, steam-volatile

Hazard & Toxicity: Exp. carcinogen; samples often contaminated with the highly carcinogenic 2-isomer. Use controlled in the U.K. by the Control of Substances Hazardous to Health Regulations 1988. Fl. p. 156°

Aldrich: A6639-1

Fluka: 70731

Sigma: N7625

Supelco: 44-2271

>>Derivative: Hydrochloride

CAS Registry Number: 552-46-5

Solubility: Sol. EtOH; sl. sol. H₂O

Other Data: Sublimes

Rare Chemicals Library: S66897-4

>>Derivative: Picrate

CAS Registry Number: 20717-83-3

Physical Description: Greenish-yellow prisms (EtOH)

Melting Point: Mp 182 dec.°

>>Derivative: Formyl

Synonym(s): *N*-1-Naphthalenylformamide, 9Cl

CAS Registry Number: 6330-51-4

Molecular Formula: C₁₁H₉NO

Molecular Weight: 171.198

Accurate Mass: 171.068414

Percentage Composition: C 77.17%; H 5.30%; N 8.18%; O 9.35%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 137.5-138.5°

Rare Chemicals Library: S50408-4

>>Derivative: Ac

Synonym(s): *N*-1-Naphthylacetamide. *N*-1-Naphthalenylacetamide, 9Cl

CAS Registry Number: 575-36-0