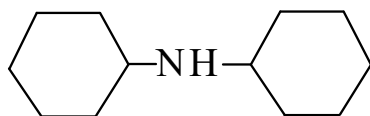




>>Entry Name: Dicyclohexylamine, 8Cl

Synonym(s): *N*-Cyclohexylcyclohexanamine, 9Cl. Dodecahydrodiphenylamine. Perhydrodiphenylamine. DCHA



CAS Registry Number: 101-83-7

Related CAS Registry Numbers(s): 59325-20-1

Molecular Formula: C₁₂H₂₃N

Molecular Weight: 181.32

Accurate Mass: 181.183049

Percentage Composition: C 79.49%; H 12.78%; N 7.72%

Source/Synthesis: By-product in manuf. of Cyclohexylamine [CZB86-V](#) from Aniline [HQP85-E](#) or Cyclohexanol [CXZ69-U](#)

Use/Importance: Corrosion inhibitor, industrial solvent. Forms cryst. salts with many *N*-protected aminoacids. Reagent for the titrimetric detn. of isocyanates

Physical Description: Liq.

Melting Point: Mp 20°. Fp -0.1°

Boiling Point: Bp₁₃ 87-93°. Bp 256°

Refractive Index: n_D²⁰ 1.4852

Hazard & Toxicity: Fl. p. 91°. Skin and eye irritant. LD₅₀ (rat, orl) 373 mg/kg

Aldrich: 18584-1

Fluka: 36630

Sigma: D3003

Supelco: 44-2564

>>Derivative: Hydrochloride

CAS Registry Number: 4693-92-9

Physical Description: Needles (H₂O)

Melting Point: Mp 350 approx.°. Mp 334-335° (sealed tube)

>>Derivative: Nitrite

CAS Registry Number: 3129-91-7

Melting Point: Mp 182-183 dec.°

Aldrich: 31783-7

Fluka: 36640

Sigma: D7276

>>Derivative: Nitrate (1:1)

CAS Registry Number: 3882-06-2

Use/Importance: Corrosion inhibitor

Other: PB D18125

>>Derivative: *N*-Ac

Synonym(s): *N,N*-Dicyclohexylacetamide, 9Cl

CAS Registry Number: 1563-91-3

Molecular Formula: C₁₄H₂₅NO

Molecular Weight: 223.358

Accurate Mass: 223.193614

Percentage Composition: C 75.28%; H 11.28%; N 6.27%; O 7.16%

Physical Description: Prisms (Et₂O)

Melting Point: Mp 103°