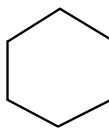




>>Entry Name: Cyclohexane

ENTRY UNDER REVIEW

Synonym(s): Hexamethylene. Hexahydrobenzene



CAS Registry Number: 110-82-7

Related CAS Registry Numbers(s): 1735-17-7 3170-58-9

Molecular Formula: C₆H₁₂

Molecular Weight: 84.161

Accurate Mass: 84.0939

Percentage Composition: C 85.63%; H 14.37%

Source/Synthesis: Occurs in sediments

Use/Importance: Widely used org. solv. Feedstock for nylon 6 and nylon 66 manuf. via oxidn. to cyclohexanol/cyclohexanone. Important industrial chemical, 45th in order of volume for USA in 1994 (production 1.05 million tons/year)

Physical Description: Liq.

Melting Point: Mp 6.5°

Boiling Point: Bp 81°

Solubility: Prac. insol. H₂O; sol. MeOH; misc. most org. solvs.

Density: d₄²⁰ 0.779

Refractive Index: n_D²⁰ 1.4262

Hazard & Toxicity: Highly flammable, fl. p. -20°, autoignition temp. 245°. Eye, skin and respiratory tract irritant. High vapour conc. narcotic. OES: long-term 100 ppm; short-term 300 ppm.

Aldrich: 44356-5

Fluka: 28940

Sigma: C8517

Supelco: 44-2531

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