

CYCLOHEXANE

Product Number 053
Packaged in 4L and 1L Glass Bottles

Specifications:

Water: Less than 0.01% by Karl Fischer titration

Ultraviolet absorbance:

Wavelength, nm	Maximum Absorbance
200	1.000
225	0.170
250	0.020
300	0.005
400	0.005

Refractive index: 1.4259 ± 0.0020 at 20°C

Residue: Less than one mg/L

Purity: Greater than 99.5% by GC analysis

Electron capture GC: No residue peaks greater than 10 ng/L as heptachlor epoxide

Physical Properties:

Molecular weight: 84.16

Boiling point: 80.72°C

Vapor pressure: 78mm Hg at 20°C

Freezing point: 6.54°C

Refractive index: 1.4262 at 20°C

Density: 0.7785 g/mL (6.497 lb/gal) at 20°C

0.7739 g/mL (6.457 lb/gal) at 25°C

Dielectric constant: 2.02 at 20°C

Dipole moment: 0 D at 20°C

Solvent group: 0

Polarity index (P'): 0.2

Eluotropic value on alumina: 0.04

Viscosity: 1.0 cP at 20°C

Surface tension: 24.98 dyn/cm at 20°C

Solubility in water: 0.006% at 25°C

Solubility of water in cyclohexane: 0.01% at 20°C

Regulatory and Safety Data:

DOT hazard class: 3, Pkg Grp II, UN1145, Flammable liquid

Store in an area designed for flammable storage, or in an approved metal cabinet, away from direct sunlight, heat and sources of ignition.

EPA applicable waste code(s): D001, U056

Flash point: -4°F (-20°C) by closed cup

Lower explosive limit: 1.3%

Upper explosive limit: 8.4%

Time Weighted Average: 300 ppm ACGIH

Refer to Material Safety Data Sheet for additional regulatory, health and safety information.

Suggested Applications:

For HPLC, gas chromatography, pesticide residue analysis and spectrophotometry.