

CYCLOPENTANE

Product Number 057
Packaged in 4L Glass Bottles

Specifications:

Water: Less than 0.01% by Karl Fischer titration

Ultraviolet absorbance:

Wavelength, nm	Maximum Absorbance
198	1.000
215	0.500
225	0.100
300	0.005
400	0.005

Residue: Less than one mg/L

Purity: Greater than 65% cyclopentane and 99.9% cyclopentane and saturated C₅ hydrocarbons by GC analysis

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

Physical Properties:

Molecular weight: 70.15

Boiling point: 49.3°C

Vapor pressure: 400 mm Hg@ 20°C

Freezing point: -93.9°C

Refractive index: 1.4064 at 20°C

Density: 0.7454 g/mL (6.219 lb/gal) at 20°C
0.7405 g/mL (6.178 lb/gal) at 25°C

Dielectric constant: 1.97 at 20°C

Dipole moment: 0.00 D at 25°C

Solvent group: 0

Polarity index (P'): 0.1

Elutropic value on alumina: 0.05

Viscosity: 0.44 cP at 20°C

Surface tension: 22.42 dyn/cm at 20°C

Solubility in water: Insoluble

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

Regulatory and Safety Data:

DOT hazard class: 3, Pkg Grp II, 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

Flash point: 19°F (-7°C) by closed cup

Lower explosive limit: 1.5%

Upper explosive limit: Not listed by NFPA

Time Weighted Average: 600 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.