

## PENTANE

Product Number 312  
Packaged in 4L and 1L Glass Bottles

### Specifications:

Water: Less than 0.01% by Karl Fischer titration

Ultraviolet absorbance:

Wavelength, nm	Maximum Absorbance
190	1.000
200	0.600
250	0.010
300	0.005
400	0.005

Refractive index:  $1.3576 \pm 0.0003$  at 20°C

Residue: Less than one mg/L

Purity: Greater than 98.0% n-pentane and 99.9% n-pentane and saturated C<sub>5</sub> hydrocarbons by GC analysis

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

### Physical Properties:

Molecular weight: 72.17

Boiling point: 36°C(96.8°F)@760mm Hg

Vapor pressure: 420 mm Hg at 68°F(20°C)

Freezing point: -129.7°C(-201.5°F)

Refractive index: 1.3575 at 20°C

Density: 0.6262 g/mL (5.226 lb/gal) at 20°C  
0.6214 g/mL (5.186 lb/gal) at 25°C

Dielectric constant: 1.84 at 20°C

Dipole moment: 0.00 D at 25°C

Solvent group: 0

Polarity index (P'): 0.0

Elutropic value on alumina: 0.00

Viscosity: 0.23 cP at 20°C

Surface tension: 15.48 dyn/cm at 25°C

Solubility in water: 0.04@ 68°F (20°C)

Solubility of water in pentane: 0.009% at 20°C

### Regulatory and Safety Data:

DOT hazard class: 3, Pkg Grp II, UN1265, 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: 56.2°F(-49°C) closed cup

Lower explosive limit: 1.5%

Upper explosive limit: 7.8%

Threshold limit value: 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.