

**ISO-OCTANE**  
**2,2,4-Trimethylpentane**

**Product Number 362**

**Packaged in 4L Glass Bottles**

**Specifications:**

Water: Less than 0.01% by Karl Fischer titration

Ultraviolet absorbance:

Wavelength, nm	Maximum Absorbance
215	1.000
225	0.100
250	0.020
300	0.005
400	0.005

Refractive index:  $1.3915 \pm 0.0008$  at 20°C

Residue: Less than one mg/L

Purity: Greater than 99.0% by GC analysis

Electron capture GC: No residue peaks greater than 4 µg/L as heptachlor epoxide.

**Physical Properties:**

Molecular weight: 114.23

Boiling point: 99.24°C

Vapor pressure: 41 Torr at 20°C

Freezing point: -107.39°C

Refractive index: 1.3914 at 20°C

Density: 0.6919 g/mL (5.77 lb/gal) at 20°C

0.6878 g/mL (5.74 lb/gal) at 25°C

Dielectric constant: 1.94 at 20°C

Dipole moment: 0 D at 20°C

Solvent group: 0

Polarity index (P'): 0.1

Viscosity: 0.50 cP at 20°C

Surface tension: 18.77 dyn/cm at 20°C

Solubility in water: 0.0002% at 25°C

Solubility of water in iso-octane: 0.006% at 20°C

**Regulatory and Safety Data**

DOT Hazard Class: 3, Pkg Grp II, UN1262, 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: 40°F (-12°C) by open cup

Lower explosive limit: 1.0%

Upper explosive limit: 6.0%

Time Weighted Average: not listed 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.