

TOLUENE

Product Number 347

Packaged in 4L and 1L Glass Bottles and 20L NOWPAK[®] "Bag-in-a-Bottle" Containers

Specifications:

Water: Less than 0.03% by Karl Fischer titration

Ultraviolet absorbance:

Wavelength, nm	Maximum Absorbance
284	1.000
300	0.120
325	0.025
350	0.005
400	0.005

Refractive index: 1.4967 ± 0.0004 at 20°C

Residue: Less than one mg/L

Benzene: Less than 500 mg/L

Purity: Greater than 99.8% by GC analysis

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

Physical Properties:

Molecular weight: 92.14

Boiling point: 110.6°C@760mm Hg

Vapor pressure: 28.5 @ 20°C

Freezing point: -95°C

Refractive index: 1.4969 at 20°C

Density: 0.8669 g/mL (7.234 lb/gal) at 20°C

0.8623 g/mL (7.196 lb/gal) at 25°C

Dielectric constant: 2.38 at 25°C

Dipole moment: 0.31 D at 20°C

Solvent group: 7

Polarity index (P'): 2.4

Elutropic value on alumina: 0.29

Viscosity: 0.59 cP at 20°C

Surface tension: 28.53 dyn/cm at 20°C

Solubility in water: 0.074% at 20°C

Solubility of water in toluene: 0.033% at 25°C

Regulatory and Safety Data:

DOT Hazard Class: 3, Pkg Grp II, UN 1294, 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 Waste Code(s): U220, D001

Flash point: 39°F (4°C) by closed cup

Lower explosive limit: 1.1%

Upper explosive limit: 7.1%

Time Weighted Average: 20 ppm ACGIH

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

Suggested Applications:

For HPLC, gas chromatography, pesticide residue analysis, spectrophotometry and liquid scintillation counting.