

ISOPROPYL ALCOHOL

Product Number 323

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

Specifications:

Water: Less than 0.06% by Karl Fischer titration

Ultraviolet absorbance:

Wavelength, nm	Maximum Absorbance
205	1.000
225	0.160
250	0.020
300	0.005
400	0.005

Refractive index: 1.3772 ± 0.0006 at 20°C

Residue: Less than one mg/L

Purity: Greater than 99.9% by GC analysis

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

Physical Properties

Molecular weight: 60.11

Boiling point: 82.3°C (180.1°F)

Vapor pressure: 4.3 kPa (33mm Hg) @ (20°C)

Freezing point: -85°C (-121°F)

Refractive index: 1.3772 at 20°C

Density: 0.7854 g/mL (6.554 lb/gal) at 20°C

0.7812 g/mL (6.519 lb/gal) at 25°C

Dielectric constant: 19.92 at 25°C

Dipole moment: 1.66 D at 30°C

Solvent group: 2

Polarity index (P'): 3.9

Eluotropic value on alumina: 0.82

Eluotropic value on octadecylsilane: 8.3

Viscosity: 2.4 cP at 20°C

Surface tension: 21.79 dyn/cm at 15°C

Solubility in water: Miscible in all proportions

Regulatory and Safety Data:

DOT Hazard Class: 3, Pkg Grp II, UN1219, 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 Ignitable

Flash point: 53°F (12°C) by closed cup

Lower explosive limit: 2.0%

Upper explosive limit: 12.7%

Time Weighted Average: 400 ppm

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

Suggested Applications:

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