

Honeywell Burdick & Jackson®

1953 South Harvey Street
Muskegon, MI 49442

ACETONITRILE UV**Product Number 015****Packaged in 4L and 1L Glass Bottles, 20L and 10L NOWPAK® “Bag-in-a-Bottle” Containers****Specifications:**

Water: Less than 0.01% by Karl Fischer titration

Ultraviolet absorbance:

Wavelength, nm	Maximum Absorbance
200	0.050
205	0.040
210	0.040
225	0.010
250	0.005
350	0.005
400	0.005

Refractive index: 1.3440 ± 0.0006 at 20°C

Residue: Less than one mg/L

Purity: Greater than 99.9% by GC analysis

Electron capture GC: No residue peaks greater than 10 ng/L as heptachlor epoxide,
based on a 1:1 petroleum ether extractHPLC gradient elution: No UV absorbing peak greater than 0.001 absorbance unit (1 cm
path length) at 254 nm, or 0.005 absorbance unit at 215 nm in a
gradient from 70% water to 100% acetonitrile on a 15 x 0.46 cm
column with 5 µ HLD C₈ packing.Fluorescence: No impurity greater than 0.3 ppb as quinine base at emission of 450 nm
after excitation at 350nm.**Physical Properties:**

Molecular weight: 41

Boiling point: 82°C(180°F)

Vapor pressure: 73mm Hg at 20°C

Freezing point: -46°C

Refractive index: 1.3441 at 20°C

Density: 0.7822 g/mL (6.527 lb/gal) at 20°C

0.7766 g/mL (6.481 lb/gal) at 25°C

Dielectric constant: 37.5 at 20°C

Dipole moment: 3.44 D at 20°C

Solvent group: 6

Polarity index (P'): 5.8

Eluotropic value on alumina: 0.65

Eluotropic value on octadecylsilane: 3.1

Eluotropic value on silica: 0.52

Viscosity: 0.38 cP at 15°C

Surface tension: 19.10 dyn/cm at 20°C

Solubility in water: Miscible in all proportions

Regulatory and Safety Data:

DOT Hazard Class: 3, UN1648, Pkg Grp II, Flammable Liquid

Store in an area designed for flammable storage, or an approved metal cabinet,
away from direct sunlight and sources of heat and ignition.

EPA applicable waste codes: D001 & U003

Flash point: 42°F (6°C) by open cup

Lower explosive limit: 3.0%

Upper explosive limit: 16.0%

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, spectrophotometry and pesticide residue analysis.