

**Honeywell Burdick & Jackson®**

1953 South Harvey Street  
Muskegon, MI 49442

**ACETONITRILE  
Low Water Content****Product Number 017****Packaged in 4L bottles, 20L and 10L NOWPAK® “Bag-in-a-Bottle” Containers****Specifications:**

Water: Less than 0.003% by Karl Fischer titration

UV cutoff: 190 nm

Ultraviolet absorbance:

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

**Physical Properties:**

Molecular weight: 41

Boiling point: 82°C

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 &amp; 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 oligonucleotide synthesis and other applications requiring extremely low water content.