

Honeywell Burdick & Jackson®

1953 South Harvey Street
Muskegon, MI 49442

ACETONITRILE

Product Number AH015
Packaged in 4L Glass Bottles

Specifications:

Appearance: Clear

Water: Less than 0.05% by Karl Fischer titration

Ultraviolet absorbance:

Wavelength, nm	Maximum Absorbance
200	0.070
205	0.050
210	0.050
225	0.020
250	0.005
350	0.005
400	0.005

Refractive index: 1.3440 ± 0.0006 at 20°C

Residue: Less than three mg/L

Purity: Greater than 99.9% by GC analysis

Color (APHA): Less than 10

Titration acid: Less than 8 $\mu\text{eq/g}$

Titration base: Less than 0.6 $\mu\text{eq/g}$

HPLC gradient elution: Passes ACS test

Physical Properties:

Molecular weight: 41

Boiling point: 81°C(180°F)

Vapor pressure: 73mm Hg at 25°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, spectrophotometry and applications requiring ACS Reagent Grade solvents.