

Acetonitrile  
Solvent Properties

CAS 75-05-8

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## Physical Properties

Molecular weight	41.05
Boiling point	81.60°C
Vapor pressure	88.8 Torr at 25°C
Freezing point	-43.8°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, Flammable Liquid
Packing Group	II
UN Identification Number	UN1648

Storage

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 code(s)	D001, U003
Flash Point	42°F (6°C) by closed cup
Lower explosive limit	3.0%
Upper explosive limit	16.0%
Time Weighted Average	40ppm ACGIH