

TIQ-F-QC-003
 Rev.00

Technical Data Sheet

ACETONITRILLE 99,9 % GRADIENT GRADE

Methyl Cyanide; Cyanomethane; Ethanenitrile; Ethyl nitrile



Product Code	B-3007	Grade	HPLC & UV Spectroscopy
Purity	99,9%	CAS No	75-05-8
Molecular Formula	CH ₃ CN	Molecular Weight	41.05 g/mol
H.S.Code	2915.2100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colourless
Odour	Ether-like	Melting Point/ Freezing point (°C)	-48°C
Flash point	2 °C	Vapour pressure (20 °C)	98.64 hPa
Boiling point	81 - 82 °C	Density (g/cm ³)	0.786
Vapour density	1.42	Relative density, gas (air=1)	1.4
Solubility in water (% weight)	Complete	Evaporation rate	5.8
Auto ignition temperature (°C)	524°C	Explosion limit upper	16 % (V)
Partition coefficient: noctanol/water	log Pow: -0.54 at 25 °C	Explosion limit lower	3 % (V)

Packaging

2500 & 4000 ml

Specification

Appearance	Clear colorless liquid
Assay (GC)	min 99.9 %
Colour	max 10 Hazen
Wt.per ml at 20 °C	0.782 – 0.783 g/cm ³
Identity (IR)	Passes test
Non volatile matter	max 0.0005 %
Water (H ₂ O)	max 0.03 %
Acidity	max 0.0002 meq/g

Alkalinity	max 0.0002 meq/g
UV Transmittance at λ :	
195 nm	min 75.0 T%
200 nm	min 95.0 T%
210 nm	min 96.0 T%
220 nm	min 97.0 T%
230 nm	min 98.0 T%
240 nm	min 99.0 T%
Gradeint elution test at λ :	
210 nm	max 10.0 mAU
254 nm	max 5.0 mAU
Dilution test (1:1, 1:2, water)	The solution is clear & colourless

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Danger

UN No.: 1648

IMCO Class No.: 3

Packing Group: II

Hazardous Statement: H225-H302-H312-H319-H332

Precaution Statement: P210-P280- P305+P351+P338