MERCK

Type in Product Names, Product Numbers, or CAS Numbers to see suggestions.

Products › Acetonitrile › 100030

1.00030 Supelco

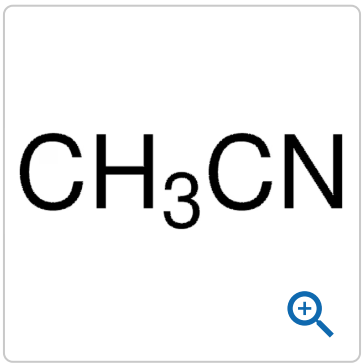
Share

Acetonitrile

≥99.9% (GC), gradient grade, suitable for HPLC, Reag. Ph Eur, LiChrosolv®

(0) Write a review Ask a question

Synonym(s):ACN, Cyanomethane, Ethyl nitrile, Methyl cyanide



Photos (3)

Sign In to View Organizational & Contract Pricing.

Select a Size

1 L	2.5 L	4 L
$220.26	$358.07	$577.15

1000301000

$220.26

Estimated to ship on March 04, 2026 Details

To order products, please **contact** your local dealer.

About This Item

Linear Formula:	CH_3CN
CAS Number:	**75-05-8**
Molecular Weight:	41.05
NACRES:	NA.03
EC Index Number:	200-835-2
UNSPSC Code:	12191502
MDL number:	**MFCD00001878**
Beilstein/REAXYS Number:	741857
Assay:	≥99.9% (GC), ≥99.9%
Grade:	gradient grade
Technique(s):	HPLC: suitable
Vapor pressure:	72.8 mmHg (20 °C), 97 hPa (20 °C)

Key Documents

SDS **COA** **COQ**

View All Documentation

Skip To

Compare Similar Items
Safety Information
Documentation
Protocols and Articles
Peer Reviewed Papers
Questions & Answers
Reviews

Technical Service

Need help? Our team of experienced scientists is here for you.

Let Us Assist

Recommended Products



SAFC
1.05150
Potassium sulfate

Quick View



Sigma-Aldrich
MSG4000
DC Mass Spect Gold® Serum

Quick View

Properties

Product Name	Acetonitrile, gradient grade for liquid chromatography LiChrosolv® Reag. Ph Eur
Quality Level	200
vapor pressure	72.8 mmHg (20 °C), 97 hPa (20 °C)
description	(Absorbance (at 200 nm) <=0.1 Absorbance (from 240 nm) <=0.01), (Fluorescence(as quinine at 254nm) <=1.0ppb), (Fluorescence(as quinine at 365nm)<=0.5ppb)
product line	LiChrosolv®
assay	≥99.9% (GC), ≥99.9%
form	liquid
autoignition temp.	524 °C, 973 °F
technique(s)	HPLC: suitable

impurities	≤0.0002 meq/g Acidity, ≤0.0002 meq/g Alkalinity, ≤0.02% Water
evapn. residue	≤2.0 mg/L
color	APHA: ≤10
transmittance	193 nm, ≥60%, 195 nm, ≥80%, 230 nm, ≥98%
refractive index	*n*/D 1.344
mp	-45 °C (lit.)
transition temp	flash point 2 °C
density	0.78-20 °C
format	neat
storage temp.	2-30°C
grade	gradient grade
agency	reag. Ph. Eur.

Looking for similar products? Visit **Product Comparison Guide**

Related Categories

Acetonitrile
Analytical Chromatography
HPLC Solvents
Lab Chemicals
Solvents

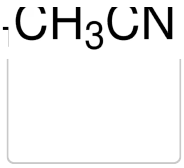
Compare Similar Items

Show Differences

This Item

Supelco

Supelco



1.00030
Acetonitrile

Quick View

grade
gradient grade

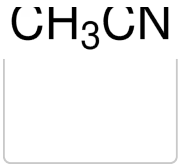
Quality Level
200

assay
≥99.9% (GC)

technique(s)
HPLC: suitable

form
liquid

impurities
≤0.0002 meq/g Acidity, ≤0.02% Water, ≤0.0002 meq/g Alkalinity



1.14291
Acetonitrile

Quick View

grade
HPLC grade, isocratic

Quality Level
100

assay
≥99.8% (GC)

technique(s)
HPLC: suitable

form
liquid

impurities
≤0.0002 meq/g Alkalinity, ≤0.0005 meq/g Acidity, ≤0.05% Water

Description

General description

LiChrosolv® solvents were specially formulated to meet the demanding needs of analytical HPLC applications. With exceptional UV transmittance, minimal particle count, and controlled acidity and alkalinity, our solvents ensure reproducible separations every time. The low evaporation residue level further enhances their performance, making them the ideal choice for high-quality results. The product line includes both "gradient grade" and "isocratic grade" solvents, specifically designed to reduce the gradient effect during separations. This tailored approach allows for optimal consistency and accuracy in your analytical processes, helping you achieve the best possible outcomes in your chromatography work.

Now Available with Data Matrix Code
This high-quality HPLC-grade solvent now features a unique Data Matrix Code on its label, providing digital access to essential product information such as batch number, product number, and expiry date. Unlike standard barcodes, our DMCs feature a **unique serial number** for each bottle, enabling you to monitor and trace every bottle individually. With standard barcodes, all bottles from the same batch look identical. Our solution gives you true bottle-level traceability for greater control and compliance in the lab.
Know more about our data matrix code-labeled HPLC-grade solvents.

Application

- **Reversed-Phase HPLC**: Commonly used as a mobile phasecomponent for the separation of a wide range of compounds, includingpharmaceuticals, environmental pollutants, and biomolecules.
- **Gradient Elution**: Ideal for gradient elutiontechniques, enhancing the resolution and separation efficiency of complexmixtures.
- **Pharmaceutical Analysis**: Frequently employed in theanalysis of active pharmaceutical ingredients (APIs) and their impurities,ensuring compliance with regulatory standards.
- **Biological Sample Analysis**: Used for the analysis ofproteins, peptides, and metabolites in biological samples, facilitatingaccurate quantification and identification.
- **Environmental Monitoring**: Applied in the HPLCanalysis of environmental samples to detect and quantify contaminants in water,soil, and air.

Features and Benefits

- **High Purity**: Formulated with minimal impurities, ensuring reliable and reproducible results essential for sensitive analytical applications.
- **Excellent UV Transparency**: Provides optimal UV transmittance, facilitating accurate detection and enhancing sensitivity in HPLC analyses.
- **Low Evaporation Residue**: Minimizes contamination risk, leading to cleaner separations and improved analytical reliability.
- **Batch-to-Batch Consistency**: Ensures uniform quality and performance across different production batches, enhancing reproducibility and confidence in analytical results.

Preparation Note

Microfiltered by 0.2 µm filter

Other Notes

Explore various **lab safety** accessories and equipment for **safe handling** of solvents to increase your safety level from the first usage.

Legal Information

LICHROSOLV is a registered trademark of Merck KGaA, Darmstadt, Germany

Related Products

Related Product

34851

Acetonitrile, suitable for HPLC, gradient grade, ≥99.9%

View Pricing

34885

Methanol, suitable for HPLC, gradient grade, ≥99.9%

View Pricing

439134

Acetonitrile, suitable for HPLC, gradient grade, ≥99.9%

View Pricing

439193

Methanol, suitable for HPLC, gradient grade, suitable as ACS-grade LC reagent, ≥99.9%

View Pricing

1.11727

Ethanol, gradient grade for liquid chromatography LiChrosolv®

View Pricing

WX0004

Water, gradient grade, Meets Reagent Specifications for testing USP/NF monographs OmniSolv®

View Pricing

1.06007

Methanol, gradient grade for liquid chromatography LiChrosolv® Reag. Ph Eur

View Pricing

1.01040

2-Propanol, gradient grade for liquid chromatography LiChrosolv®

View Pricing

MX0488

Methanol, gradient grade OmniSolv®, ≥99.9% (GC)

View Pricing

AX0142

Acetonitrile, gradient grade OmniSolv®

View Pricing

Safety Information

pictograms



GHS02,GHS07

signalword
Danger

hcodes
H225,H302 + H312 + H332,H319

pcodes
P210 - P280 - P301 + P312 - P303 + P361 + P353 - P304 + P340 + P312 - P305 + P351 + P338

Hazard Classifications

Storage Class
3 - Flammable liquids

wgk
WGK 2

flash_point_f
35.6 °F - closed cup