

# Certificate of Analysis

<b>Product</b>	<b>Acetonitrile for HPLC gradient grade</b>
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Product number	LC-5413
Lot number	63A1E656
Synonyms	Methyl cyanide
Formula	C <sub>2</sub> H <sub>3</sub> N
Molecular weight	41.03 g/mol
CAS number	75-05-8
Storage	below 25°C
Manufacturing date	February 2023
Retest period (months)	48
Retest date	February 2027

Suitable for UPLC / UHPLC / Ultra HPLC - instruments.

Conforms to Acetonitrile for chromatography and Acetonitrile R1 according to Reag.Ph Eur and conforms to the requirements of ACS.

Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Parameter	Specification	Result
n 20°C/D	1.3442	complies
Melting point	-48°C	complies
Boiling point	80° - 82°C	complies
Assay (G.C.)	min. 99.90 %	99.91 %
Identity (IR)	passes test	complies
Density at 20/4	0.779 - 0.783	complies
Color (HAZEN)	max. 10	complies
Acidity	max. 0.0005 meq/g	complies
Alkalinity	max. 0.0001 meq/g	complies
Non-volatile matter	max. 0.0001 %	complies
Water (K.F.)	max. 0.02 %	complies
Gradient at 210 nm	max. 1 mAU	complies
Gradient at 254 nm	max. 0.5 mAU	complies
Fluorescence at 254 nm (as quinine)	max. 1 ppb	complies
Fluorescence at 365 nm (as quinine)	max. 0.5 ppb	complies
Transmittance at 193 nm	min. 60 %	complies
Transmittance at 195 nm	min. 80 %	complies
Transmittance at 230 nm	min. 98 %	complies

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Parameter	Specification	Results
Data of interest in HPLC:		
Rohrschneider Polarity	5.8	complies
Eluotropic value $e^\circ$ (Al <sub>2</sub> O <sub>3</sub> )	0.65	complies
Sol. water in solv. at 20°C	miscible	complies

Einhausen, 23.03.2023	Quality control: M.F.
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neoFroxx GmbH  
Marie-Curie-Str. 3 | 64683 Einhausen | Germany  
Phone +49 6251 989 24 0 | Fax +49 6251 989 24 10  
E-Mail [info@neofroxx.com](mailto:info@neofroxx.com) | [www.neofroxx.com](http://www.neofroxx.com)