



Material	20847.307
Material description	Methanol
Grade	AnalaR NORMAPUR Reag. Ph.Eur., ACS Analytical Reagent
Lot	25I014017
Expires end of	2030-Aug-27
CAS Number	67-56-1
Molecular formula	H <sub>3</sub> COH
Molecular mass	32.04

Characteristics	Specifications	Measured values
Assay (on anhydrous substance)	≥ 99.8 %	99.9 %
Appearance	Clear colourless liquid	Clear colourless liquid
IR Spectrum	Passes test	Passes test
Solubility in water	Passes test ACS	Passes test ACS
Acidity	≤ 0.0002 meq/g	≤ 0.0002 meq/g
Alkalinity	≤ 0.00006 meq/g	≤ 0.00006 meq/g
Boiling point	64 - 65 °C	64 °C
Colouration	≤ 10 APHA	≤ 10 APHA
Density (20/4)	0.791 - 0.792	0.791
Density (20/20)	0.791 - 0.793	0.793
Refractive index (20°C)	1.326 - 1.330	1.329
Substances coloured by H <sub>2</sub> SO <sub>4</sub>	≤ 10 APHA	≤ 10 APHA
Acetone	≤ 5 ppm	1 ppm
Acetone + aldehydes (as CH <sub>3</sub> COCH <sub>3</sub> )	≤ 10 ppm	1 ppm
Acetaldehyde	≤ 5 ppm	< 1 ppm
Ethanol	≤ 0.1 %	≤ 0.1 %
Evaporation residue	≤ 10 ppm	1 ppm
Formaldehyde	≤ 1 ppm	< 1 ppm
Substances reducing KMnO <sub>4</sub> (as O)	≤ 2 ppm	≤ 2 ppm
Water	≤ 0.05 %	0.03 %
Cl (Chloride)	≤ 0.5 ppm	≤ 0.5 ppm
Al (Aluminium)	≤ 0.1 ppm	≤ 0.1 ppm
B (Boron)	≤ 0.08 ppm	≤ 0.08 ppm
Ba (Barium)	≤ 0.05 ppm	≤ 0.05 ppm
Ca (Calcium)	≤ 0.5 ppm	≤ 0.5 ppm
Cd (Cadmium)	≤ 0.01 ppm	≤ 0.01 ppm
Co (Cobalt)	≤ 0.01 ppm	≤ 0.01 ppm
Cr (Chromium)	≤ 0.02 ppm	≤ 0.02 ppm

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For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user. 15D1C7.A2BB8C-2447538C



Characteristics	Specifications	Measured values
Cu (Copper)	≤ 0.01 ppm	≤ 0.01 ppm
Fe (Iron)	≤ 0.1 ppm	≤ 0.1 ppm
K (Potassium)	≤ 0.1 ppm	≤ 0.1 ppm
Mg (Magnesium)	≤ 0.05 ppm	≤ 0.05 ppm
Mn (Manganese)	≤ 0.01 ppm	≤ 0.01 ppm
Na (Sodium)	≤ 0.7 ppm	≤ 0.7 ppm
Ni (Nickel)	≤ 0.01 ppm	≤ 0.01 ppm
Pb (Lead)	≤ 0.01 ppm	≤ 0.01 ppm
Sn (Tin)	≤ 0.1 ppm	≤ 0.1 ppm
Sr (Strontium)	≤ 0.02 ppm	≤ 0.02 ppm
Zn (Zinc)	≤ 0.2 ppm	≤ 0.2 ppm
Absorbance (225 nm)	≤ 0.17	0.05
Transmittance (210 nm)	≥ 20 %	63 %
Transmittance (220 nm)	≥ 50 %	84 %
Transmittance (225 nm)	≥ 68 %	89 %
Transmittance (250 nm)	≥ 95 %	98 %
Transmittance (260 nm)	≥ 98 %	99 %
Conforms to ACS	Passes test	Passes test
Conforms Ph.Eur. R 1053200	Passes test	Passes test
Conforms Ph.Eur. R1 1053201	Passes test	Passes test
Conforms Ph.Eur. R2 1053202	Passes test	Passes test

## Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

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