



Material	20823.293
Material description	Ethanol 96 % vol
Grade	AnalaR NORMAPUR
CAS Number	64-17-5
Molecular formula	H ₃ CCH ₂ OH
Molecular mass	46.07

Characteristics

Specifications

Assay (on anhydrous substance)	Min. 99.8 %
Assay (V/V)	95.1 --> 96.9 %
IR Spectrum	Passes test
UV Spectrum	Passes test
Acidity	Max. 0.0002 meq/g
Alkalinity	Max. 0.0001 meq/g
Boiling point	77.5 --> 78.5 °C
Colouration	Max. 10 APHA
Substances coloured by H ₂ SO ₄	Max. 20 APHA
Aldehydes (as CH ₃ CHO)	Max. 5 ppm
Aldehydes + ketones (as CH ₃ CHO)	Max. 10 ppm
Benzene	Max. 5 ppm
Evaporation residue	Max. 5 ppm
Formaldehyde	Max. 1 ppm
Furaldehyde	Max. 1 ppm
Ketones (as CH ₃ COCH ₃)	Max. 10 ppm
Methanol	Max. 0.02 %
2-Propanol	Max. 30 ppm
Substances reducing KMnO ₄ (as O)	Max. 4 ppm
Total heavy alcohols	Max. 100 ppm
Water	5.2 --> 8.2 %
Al (Aluminium)	Max. 0.1 ppm
Ba (Barium)	Max. 0.02 ppm
Ca (Calcium)	Max. 0.2 ppm
Cd (Cadmium)	Max. 0.02 ppm
Co (Cobalt)	Max. 0.01 ppm
Cr (Chromium)	Max. 0.01 ppm
Cu (Copper)	Max. 0.1 ppm

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Characteristics	Specifications
Fe (Iron)	Max. 0.05 ppm
K (Potassium)	Max. 0.1 ppm
Mg (Magnesium)	Max. 0.05 ppm
Mn (Manganese)	Max. 0.01 ppm
Na (Sodium)	Max. 1 ppm
Ni (Nickel)	Max. 0.02 ppm
Pb (Lead)	Max. 0.05 ppm
Sn (Tin)	Max. 0.05 ppm
Sr (Strontium)	Max. 0.02 ppm
Zn (Zinc)	Max. 0.1 ppm

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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