

Certificate of Analysis

Product Name:

Ethylene glycol PurReagent Plus, Meets analytical specifications of EP, ≥99.5%

Product No.: PSR1030
Lot No.: Sample COA
Brand: PureSynth
CAS No.: 107-21-1
Molecular Formula: C₂H₆O₂
Molecular Weight: 62.07 g/mol
Date of Mfg.: NA
Date of Exp.: NA

Test	Specification	Result
Appearance	Colorless Liquid	Colorless Liquid
Assay (By GC)	≥ 99.5 %	99.99 %
Water (By KF)	NMT 0.1 %	0.05 %
Density (D 20/4)	1.113-1.115 g/cm ³	1.114 g/cm ³
Refractive Index (N 20/D)	1.430-1.432	1.431
Boiling Point	195 – 197 °C	196 °C
Sulfated Ash	NMT 0.005 %	< 0.005 %
Free Acid (as CH ₃ COOH)	NMT 0.001 %	< 0.001 %
Aluminium (Al)	NMT 0.5 ppm	< 0.5 ppm
Barium (Ba)	NMT 0.1 ppm	< 0.1 ppm
Bismuth (Bi)	NMT 0.1 ppm	< 0.1 ppm
Calcium (Ca)	NMT 0.5 ppm	< 0.5 ppm
Cadmium (Cd)	NMT 0.05 ppm	< 0.05 ppm
Cobalt (Co)	NMT 0.02 ppm	< 0.02 ppm
Chromium (Cr)	NMT 0.02 ppm	< 0.02 ppm
Copper (Cu)	NMT 0.02 ppm	< 0.02 ppm
Iron (Fe)	NMT 0.2 ppm	< 0.2 ppm
Potassium (K)	NMT 0.5 ppm	< 0.5 ppm
Lithium (Li)	NMT 0.1 ppm	< 0.1 ppm
Magnesium (Mg)	NMT 0.1 ppm	< 0.1 ppm
Manganese (Mn)	NMT 0.05 ppm	< 0.05 ppm
Molybdenum (Mo)	NMT 0.1 ppm	< 0.1 ppm
Sodium (Na)	NMT 1 ppm	< 1 ppm
Nickel (Ni)	NMT 0.02 ppm	< 0.02 ppm
Lead (Pb)	NMT 0.1 ppm	< 0.1 ppm
Strontium (Sr)	NMT 0.1 ppm	< 0.1 ppm
Zinc (Zn)	NMT 0.2 ppm	< 0.2 ppm

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.

For queries on this COA, please contact our technical team at technical@pure-synth.com

64683 Einhausen Marie-Curie-Straße. 3, Germany
Website: www.pure-synth.com
Phone: 1800-8908-260
Email: info@pure-synth.com

Chloride (Cl)	NMT 0.2 ppm	< 0.2 ppm
Sulfate (SO ₄)	NMT 10 ppm	< 10 ppm
Formaldehyde	NMT 50 ppm	< 50 ppm
Kmno ₄ Reducing Matter	NMT 0.0003 %	< 0.0003 %
Color (By APHA)	NMT 25	< 25
Identification by IR	Conforms to Structure	Conforms

Remarks:

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at www.pure-synth.com

Inspect on receipt

Storage Condition:

Store at room temperature and keep the container tightly closed

PureSynth Research Chemicals GmbH

This is electronically-generated copy & is valid without a signature

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