



Certificate of Analysis

1.00921.2500 Diethyl ether for analysis EMSURE® ACS,ISO,Reag. Ph Eur
Batch K54909121

	Spec. Values		Batch Values	
Purity (GC)	≥ 99.7	%	99.9	%
Identity (IR)	conforms		conforms	
Appearance	clear		clear	
Color	≤ 10	Hazen	< 5	Hazen
Titration acid	≤ 0.0002	meq/g	< 0.0001	meq/g
Alkalinity	≤ 0.0002	meq/g	< 0.0002	meq/g
Density (d 20 °C/20 °C)	0.713 - 0.715		0.715	
Boiling point	34 - 35	°C	34	°C
Chloride (Cl)	≤ 0.00003	%	≤ 0.00003	%
Sulfate (SO ₄)	≤ 0.00003	%	≤ 0.00003	%
Acetone (GC)	≤ 0.005	%	< 0.001	%
Ethanol (GC)	≤ 0.02	%	< 0.01	%
Methanol (GC)	≤ 0.02	%	< 0.01	%
Peroxide (as H ₂ O ₂)	≤ 0.000015	%	≤ 0.000015	%
Carbonyl compounds (as HCHO)	≤ 0.001	%	≤ 0.001	%
Carbonyl compounds (as CO)	≤ 0.001	%	≤ 0.001	%
Matter discolored by H ₂ SO ₄	≤ 10	Hazen	≤ 10	Hazen
Al (Aluminium)	≤ 0.00005	%	≤ 0.00005	%
B (Boron)	≤ 0.000002	%	≤ 0.000002	%
Ba (Barium)	≤ 0.00001	%	≤ 0.00001	%
Ca (Calcium)	≤ 0.00005	%	≤ 0.00005	%
Cd (Cadmium)	≤ 0.000005	%	≤ 0.000005	%
Co (Cobalt)	≤ 0.000002	%	≤ 0.000002	%
Cr (Chromium)	≤ 0.000002	%	≤ 0.000002	%
Cu (Copper)	≤ 0.000002	%	≤ 0.000002	%
Fe (Iron)	≤ 0.00001	%	≤ 0.00001	%
Mg (Magnesium)	≤ 0.00001	%	≤ 0.00001	%
Mn (Manganese)	≤ 0.000002	%	≤ 0.000002	%
Ni (Nickel)	≤ 0.000002	%	≤ 0.000002	%
Pb (Lead)	≤ 0.00001	%	≤ 0.00001	%
Sn (Tin)	≤ 0.00001	%	≤ 0.00001	%
Zn (Zinc)	≤ 0.00001	%	≤ 0.00001	%
Evaporation residue	≤ 0.0005	%	< 0.0001	%
Water	≤ 0.03	%	0.01	%

The product is stabilized with 5 - 10 ppm 2,6-Di-tert-butyl-4-methylphenol (BHT).

Date of release (DD.MM.YYYY) 03.02.2023
Minimum shelf life (DD.MM.YYYY) 30.11.2025

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Jeannette David

Responsible laboratory manager quality control

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