Certificate of Analysis

1.02445.0000 Chloroform for analysis EMSURE® ACS,ISO,Reag. Ph Eur
Batch K57265845

	Spec. Values		Batch Values	
Purity (GC)	99.0 - 99.4	%	99.2	%
Assay (according to ACS)	≥ 99.8	%	99.9	%
Identity (IR)	conforms		conforms	
Appearance	clear		clear	
Color	≤ 10	Hazen	< 5	Hazen
Free acid (as HCl)	≤ 0.0002	%	0.0001	%
Density (d 20 °C/20 °C)	1.475 - 1.481		1.480	
Boiling point	60 - 62	°C	61	°C
Acid and chloride	conforms		conforms	
Chloride (Cl)	≤ 0.00002	%	≤ 0.00002	%
Free chlorine	≤ 0.00003	%	≤ 0.00003	%
Carbonyl compounds (as CO)	≤ 0.005	%	≤ 0.005	%
Readily carbonizable substances	conforms		conforms	
Ethanol (GC)	0.6 - 1.0	%	0.8	%
Dichloromethane (GC)	≤ 0.01	%	< 0.01	%
Carbon tetrachloride (GC)	≤ 0.01	%	< 0.01	%
Tetrachloroethylene (GC)	≤ 0.01	%	< 0.01	%
Trichloroethylene (GC)	≤ 0.01	%	< 0.01	%
Related substances (GC)	≤ 0.7	%	< 0.7	%
Aldehydes and ketones (as C_3H_6O)	≤ 0.001	%	≤ 0.001	%
Suitability for determination with dithizone	conforms		conforms	
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)	≤ 0.00002	%	≤ 0.00002	%
Mg (Magnesium)	≤ 0.00001	%	≤ 0.00001	%
Mn (Manganese)	≤ 0.000002	%	≤ 0.000002	%
Mo (Molybdenum)	≤ 0.000002	%	≤ 0.000002	%
Ni (Nickel)	≤ 0.000002	%	≤ 0.000002	%
Pb (Lead)	≤ 0.000005	%	≤ 0.000005	%
Sn (Tin)	≤ 0.00001	%	≤ 0.00001	%
Zn (Zinc)	≤ 0.00001	%	≤ 0.00001	%
Evaporation residue	≤ 0.001	%	< 0.001	%
Water	≤ 0.01	%	< 0.01	%

Stabilized with 0,6-1,0% Ethanol

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Minimum shelf life (DD.MM.YYYY) 31.01.2029

Jeannette David
Responsible laboratory manager quality control

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