



Certificate of Analysis

1.05927.0000 Manganese(II) chloride tetrahydrate for analysis EMSURE® ACS
Batch K55996927

	Spec. Values		Batch Values	
Assay (complexometric)	99.0 - 101.0	%	100.2	%
Insoluble matter	≤ 0.005	%	≤ 0.005	%
pH-value (5 %; water; 25 °C)	3.5 - 6.0		5.8	
Sulfate (SO ₄)	≤ 0.002	%	≤ 0.002	%
Heavy metals (as Pb)	≤ 0.0005	%	≤ 0.0005	%
Ca (Calcium)	≤ 0.001	%	≤ 0.001	%
Cu (Copper)	≤ 0.0005	%	≤ 0.0005	%
Fe (Iron)	≤ 0.0005	%	≤ 0.0005	%
K (Potassium)	≤ 0.001	%	≤ 0.001	%
Mg (Magnesium)	≤ 0.005	%	≤ 0.005	%
Na (Sodium)	≤ 0.005	%	≤ 0.005	%
Pb (Lead)	≤ 0.0005	%	≤ 0.0005	%
Zn (Zinc)	≤ 0.001	%	≤ 0.001	%
Substances not precipitated by ammonium sulfide (as SO ₄)	≤ 0.2	%	≤ 0.2	%
Substances reducing potassium permanganate (as O)	≤ 0.0005	%	≤ 0.0005	%

Corresponds to ACS

Date of release (DD.MM.YYYY) 27.05.2024
Minimum shelf life (DD.MM.YYYY) 31.05.2029

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Responsible laboratory manager quality control

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