

## Certificate of Analysis

Date of Testing: 2022-11-04 11:33:01

Date of Next Testing: 2026-11-03 11:33:01

Product Name: **Manganese chloride**

CAS Number: 13446-34-9

Specifications & Purity: ACS

Lot #: J2228646

SKU #: **M112544**

**Analysis:** **140550**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
Sulfate(SO42-)	0-0.005 (%)	0.00 %
Purity Titration by EDTA	98-102 (%)	100.87 %
Zinc(Zn)	0-0.005 (%)	0.00 %
Magnesium(Mg)	0-0.005 (%)	0.00 %
Potassium(K)	0-0.01 (%)	0.00 %
Calcium(Ca)	0-0.005 (%)	0.00 %
PH (5%, water) 25 ° C	3.5-6	4.57
Sodium(Na)	0-0.05 (%)	0.00 %
Iron(Fe)	0-5 (ppm)	0.00 ppm
Insoluble matter(C = 20g in 150ml H2O)	0-0.005 (%)	0.00 %
Heavy metal (as Pb)	0-5 (ppm)	1.05 ppm
Appearance (M112544)	Pink Crystals	Pink Crystals
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



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QA & QC Manager