

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-06-12 11:38:41

Date of Next Testing: 2030-06-11 11:38:41

Product Name: **Manganese(II) Chloride Tetrahydrate**

CAS Number: 13446-34-9

Specifications & Purity: AR, ≥99%

Lot #: F2602284

SKU #: **M112542**

Version: **0**

Analysis #: **707054**

Storage Temperature: Room temperature, Argon charged, Desiccated

Parameter	Limit Values	Result
Sodium(Na)	0-0.05 (%)	0.00160 %
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Insoluble matter(C = 20g in 150ml H2O)	0-0.005 (%)	0.00000 %
Zinc(Zn)	0-0.02 (%)	0.00000 %
Water by Karl Fischer	33-39 (%)	38.93820 %
Heavy metals(as Pb)	0-50 (ppm)	17.00000 ppm
Assay(Complexometric EDTA)	98.5-101.5 (%)	100.91000 %
Potassium(K)	0-0.01 (%)	0.00520 %
Sulfate(SO42-)	0-0.005 (%)	0.00370 %
Magnesium(Mg)	0-0.005 (%)	0.00040 %
PH (5%, water) 25 ° C	3.5-6	6.00000
Appearance (M112542)	Faint Red to Dark Red and Pink Powder or Crystals	Faint Red to Dark Red and Pink Powder or Crystals
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



QualityAssurance@aladdinsci.com

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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager