



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : MANGANESE (II) CHLORIDE (TETRAHYDRATE) PURIFIED**  
(Manganous Chloride)

**CAS No** : 13446- 34- 9  
**Mol. Formula** :  $MnCl_2 \cdot 4H_2O$   
**Mol. WT** : 197.90  
**Date of analysis** : 05/07/21

**Product code** : 15590  
**Batch No** : MCR-23691  
**Mfd.** : July 2021  
**Exp.** : June 2026

S. R	Test	Specification	Observation
1	<b>Description</b>	Pink crystals or crystalline powder	Pink crystalline powder
2	<b>Assay</b>	97 – 101% w/w	98.40% w/w
3	<b>Sulphate (SO<sub>4</sub>)</b>	0.05% max	< 0.05%
4	<b>Barium (Ba)</b>	0.05% max	< 0.05%
5	<b>Iron (Fe)</b>	0.005% max	< 0.005%
6	<b>Potassium (K)</b>	0.025% max	< 0.025%
7	<b>Sodium (Na)</b>	0.05% max	< 0.05%
8	<b>Zinc (Zn)</b>	0.05% max	< 0.05%

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]

[QC Incharge]

**HEAD-QUALITY ASSUARANCE**  
(G.G.Salian)

**Note:** Computer generated image requires no sign.

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