



## CERTIFICATE OF ANALYSIS

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

<b>CAS No</b>	<b>: 13446-34-9</b>	<b>Product code</b>	<b>: 15590</b>
<b>Mol. Formula</b>	<b>: MnCl<sub>2</sub>.4H<sub>2</sub>O</b>	<b>Batch No</b>	<b>: MCR-30924</b>
<b>Mol. WT</b>	<b>: 197.90</b>	<b>Mfd.</b>	<b>: May 2024</b>
<b>Date of analysis</b>	<b>: 04/05/24</b>	<b>Exp.</b>	<b>: April 2029</b>

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	99.46% 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]**

**CHEMIST**  
**(Swati)**

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

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

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