



## 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- 15740-01</b>
<b>Mol. WT</b>	<b>: 197.90</b>	<b>Mfd.</b>	<b>: Sept. 2018</b>
<b>Date of analysis</b>	<b>: 22/09/18</b>	<b>Exp.</b>	<b>: Aug. 2023</b>

<b>S. R</b>	<b>Test</b>	<b>Specification</b>	<b>Observation</b>
1	<b>Description</b>	pink crystals or crystalline powder	pink crystalline powder
2	<b>Assay</b>	97 – 101% w/w	97.31% 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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