

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : MANGANESE (II) CHLORIDE AR (TETRAHYDRATE)**

**CAS No : 13446-34-9**  
**Mol. Formula : MnCl<sub>2</sub>.4H<sub>2</sub>O**  
**Mol. WT : 197.90**  
**Date of analysis : 09/11/24**

**Product code : 23930**  
**Batch No. : MCAR-00799**  
**Mfd. : Nov. 2024**  
**Exp. : Oct. 2029**

S.R	Test	Specification	Observation
1	<b>Description</b>	Pink crystals or crystalline powder.	Pink crystalline powder.
2	<b>Assay</b>	98.0-101.0 % w/w	98.26% w/w
3	<b>Insoluble matter</b>	0.003% max	0.002%
4	<b>Sulphate (SO<sub>4</sub>)</b>	0.0025% max	<0.0025%
5	<b>Barium (Ba)</b>	0.01% max	<0.01%
6	<b>Calcium (Ca)</b>	0.04% max	<0.04%
7	<b>Copper (Cu)</b>	0.0002% max	<0.0002%
8	<b>Iron (Fe)</b>	0.001% max	<0.001%
9	<b>Lead (Pb)</b>	0.0002% max	<0.0002%
10	<b>Magnesium (Mg)</b>	0.04% max	<0.04%
11	<b>Nickel (Ni)</b>	0.002% max	<0.002%
12	<b>Potassium (K)</b>	0.01% max	<0.01%
13	<b>Sodium (Na)</b>	0.02% max	<0.02%
14	<b>Zinc (Zn)</b>	0.02% max	<0.02%
15	<b>Substances reducing iodine (I)</b>	0.0065% max	<0.0065%

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

**[Tested By]**



**CHEMIST  
(Shruti)**

**[QC Incharge]**



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

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