# CERTIFICATE OF ANALYSIS

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

| | | | |
|---|---|---|---|
| **CAS No** | **: 13446- 34- 9** | **Product code** | **: 15590** |
| **Mol. Formula** | **: $MnCl_2.4H_2O$** | **Batch No** | **: MCR-20814** |
| **Mol. WT** | **: 197.90** | **Mfd.** | **: Feb. 2020** |
| **Date of analysis** | **: 10/02/20** | **Exp.** | **: Jan. 2025** |

| S. R | Test | Specification | Observation |
|---|---|---|---|
| 1 | **Description** | Pink crystals or crystalline powder | Pink crystalline powder |
| 2 | **Assay** | 97 – 101% w/w | 99.81% w/w |
| 3 | **Sulphate ($SO_4$)** | 0.05% max | < 0.05% |
| 4 | **Barium (Ba)** | 0.05% max | < 0.05% |
| 5 | **Iron (Fe)** | 0.005% max | < 0.005% |
| 6 | **Potassium (K)** | 0.025% max | < 0.025% |
| 7 | **Sodium (Na)** | 0.05% max | < 0.05% |
| 8 | **Zinc (Zn)** | 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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