

CERTIFICATE OF ANALYSIS

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

CAS No : 13446-34-9
Mol. Formula : MnCl₂.4H₂O
Mol. WT : 197.90
Date of analysis : 08/02/25

Product code : 23930
Batch No. : MCAR-01212
Mfd. : Feb. 2025
Exp. : Jan. 2030

S.R	Test	Specification	Observation
1	Description	Pink crystals or crystalline powder.	Pink crystalline powder.
2	Assay	98.0-101.0 % w/w	99.78% w/w
3	Insoluble matter	0.003% max	0.002%
4	Sulphate (SO₄)	0.0025% max	<0.0025%
5	Barium (Ba)	0.01% max	<0.01%
6	Calcium (Ca)	0.04% max	<0.04%
7	Copper (Cu)	0.0002% max	<0.0002%
8	Iron (Fe)	0.001% max	<0.001%
9	Lead (Pb)	0.0002% max	<0.0002%
10	Magnesium (Mg)	0.04% max	<0.04%
11	Nickel (Ni)	0.002% max	<0.002%
12	Potassium (K)	0.01% max	<0.01%
13	Sodium (Na)	0.02% max	<0.02%
14	Zinc (Zn)	0.02% max	<0.02%
15	Substances reducing iodine (I)	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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