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Certificate of Analysis

Product	12551 - Manganese (II) Chloride Tetrahydrate extrapure ACS, 99% - [13446-34-9]
Batch No	4976281
Analysis Date	14-Sep-2023
Date of Manufacture	September 2023
Expiry Date/Re-Test Date	September 2028
Molecular Formula	MnCl ₂ .4H ₂ O
Molecular Weight	197.90

Test Parameters	Standards	Actual Results
Appearance (Colour)	Pink	Pink
Appearance (Form)	Crystalline powder to crystal	Crystalline powder
Solubility (Turbidity) 10% aq. solution	Clear	Clear
Solubility (Colour) 10% aq. solution	Pink	Pink
Assay (Complexometric)	min. 99%	99.3%
Insoluble matter	max 0.005%	0.003%
pH (5% aq. solution)	3.5-6.0	4.7
Sulphate (SO ₄)	max. 0.005%	Passes
Iron (Fe)	max. 0.0005%	Passes
Heavy Metals (Pb)	max. 0.0005%	Passes
Sodium (Na)	max. 0.05%	Passes
Calcium (Ca)	max 0.005%	Passes
Magnesium (Mg)	max 0.005%	Passes
Potassium (K)	max 0.01%	Passes
Zinc (Zn)	max 0.005%	Passes
Oxidising substances	no reaction	no reaction
Substances reducing Iodine (I)	max. 0.0065%	Passes

FRM/82/11/4/12551 Rev No. 4 Date 13/07/2023

Prepared by Prasad

In compliance with the standard specifications of SRL

Plant Site 2 : H-4, MIDC, Talaja – 410 208, Maharashtra, India

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