



# LEONID CHEMICALS PVT. LTD.

## FINE CHEMICAL

Department: Quality Control      Document No: LCPL/QSD/QAD/11      SOP No.: DB/SOP/QC/11-M010

### SPECIFICATION : MANGANESE SULPHATE MONOHYDRATE AR

Issue date	16/04/2018	Review date	15/04/2023	Location	All Units
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#### PRODUCT DETAILS

1	Molecular Formula	MnSO <sub>4</sub> · H <sub>2</sub> O
2	Product code	M010
3	Molecular weight	169.02
4	CAS No	10034-96-5
5	Risk Statement No	48/20/22-51/53
6	Safety Statement No	22-61
7	UN No.	UN3077



#### PACKING DETAILS

	Product code	Pack size
1	M01010	500 g
2	M01013	5 Kg

#### PRODUCT SPECIFICATION

##### SL. No.      TEST PARAMETERS

1	Description
2	Clarity
3	Assay
4	pH range
5	Chloride(Cl)
6	Calcium(Ca)
7	Copper(Cu)
8	Iron(Fe)
9	Lead(Pb)
10	Magnesium(Mg)
11	Nickel
12	Substance reducing iodine
13	Substance reducing KMnO <sub>4</sub>
14	Insoluble matter
15	Oxidising substances

##### LIMITS

Pink slightly efflorescent crystals or crystalline powder.
A 10% solution should be clear and colourless
Not less than 99.0%
Not more than 3.5
Not more than 0.001%
Not more than 0.004%
Not more than 0.001%
Not more than 0.0015%
Not more than 0.001%
Not more than 0.004%
Not more than 0.002%
Not more than 0.01%
Not more than 0.001%
Not more than 0.01%
No reaction

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**SAFETY SYMBOLS**



Health hazard



Dangerous for the environment