



CERTIFICATE OF ANALYSIS

Date: 23/12/13

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

CAS No : 13446-34-9
Mol. Formula : $MnCl_2 \cdot 4H_2O$
Mol. WT : 197.90

Product code : 23930
Batch No : MCRT-7528
Mfd. : Dec. 2013

S. R	Test	Specification	Observation
1	Assay	98.0-101.0 % w/w	99.29 % w/w
2	Insoluble matter	0.003% max	0.002%
3	Sulphate (SO ₄)	0.0025% max	<0.0025%
4	Barium (Ba)	0.01% max	<0.01%
5	Calcium (Ca)	0.04% max	<0.04%
6	Copper (Cu)	0.0002% max	<0.0002%
7	Iron (Fe)	0.001% max	<0.001%
8	Lead (Pb)	0.0002% max	<0.0002%
9	Magnesium (Mg)	0.04% max	<0.04%
10	Nickel (Ni)	0.002% max	<0.002%
11	Potassium (K)	0.01% max	<0.01%
12	Sodium (Na)	0.02% max	<0.02%
13	Zinc (Zn)	0.02% max	<0.02%
14	Substances reducing iodine (I)	0.0065% max	<0.0065%

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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