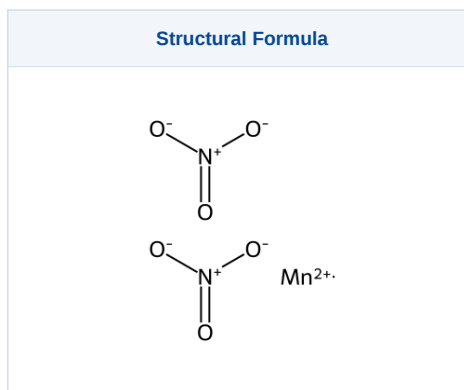


CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

Product Name	Manganese Nitrate Solution
C.A.S. Number	20694-39-7
Molecular Formula	MnN2O6
Molecular Weight	178.95
Grade / Standard	50% Technical Solution
Physical Form	Pale pink liquid
Product Category	Inorganic Salts & Compounds
Country of Origin	India



ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Pale pink liquid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Assay	Not less than 50.0 % w/w	51.28	Titrimetry / Instrumental
4	Specific Gravity at 25 °C	As per specification	Conforms	Hydrometry / ASTM D4052
5	Colour (APHA)	Not more than 30	9	ASTM D1209
6	Chloride (as Cl)	Not more than 0.01 % w/w	0.0023	Turbidimetry / IC
7	Sulphate (as SO4)	Not more than 0.02 % w/w	0.0050	Turbidimetry / IC
8	Iron (as Fe)	Not more than 20 ppm	6.6 ppm	ICP-OES / AAS
9	Heavy Metals (as Pb)	Not more than 10 ppm	Less than 5 ppm	ICP-OES
10	Structure	Conforms to reference structure	Complies	FTIR / NMR

Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

Checked and Approved by

Prem Panchal
Quality Assurance
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.