

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

Catalogue Number	42391
Lot Number	A0413601
Description	Manganese(II) sulfate monohydrate,98+%,ACS reagent
CAS Number	10034-96-5
Quality Test/Release Date	17/Nov/2024
Suggested retest date	17/Nov/2029
Country of Origin	INDIA
Declaration of Origin	synthetic

Result Name	Units	Specifications	Test Value
Appearance (Color)		Light pink	Light pink
Appearance (Form)		Powder	Powder
Titration Complexometric	%	98.0 to 101.0	99.9
Heavy metals (as Pb)	ppm	=<20	10
Loss on ignition	%	10.0 to 12.0	10.8
KMnO4-reducing substance		Passes test	Passes test
Insoluble matter	%	=<0.01	=<0.01
Chloride (Cl)	ppm	=<50	=<50
Calcium (Ca)	ppm	=<50	40
Iron (Fe)	ppm	=<20	=<20
Magnesium (Mg)	ppm	=<50	45
Nickel (Ni)	ppm	=<200	16
Potassium (K)	ppm	=<100	12
Sodium (Na)	ppm	=<500	90
Zinc (Zn)	ppm	=<50	14



Geert Torfs
Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.