

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.