

Thermo Fisher Scientific

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CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc. Certificate Number. 951001163

Catalogue Number	036526		
Lot Number	S19L021 Manganese(II) chloride tetrahydrate, ACS, 98.0-101.0% 13446-34-9 19/Jun/2025 19/Jun/2030		
Description			
CAS Number			
Quality Test/Release Date			
Suggested retest date			
Country of Origin	India		
Declaration of Origin	Synthetic		
Result Name	Units	Specifications	Test Value
Assay (unspecified)	%	98.0-101.0% Cl₂Mn.4H₂O	98.72
Impurity content	%	Ca 0.005%	0.000
Impurity content	ppm	Fe 5ppm	<5
Impurity content	%	K 0.01%	0.0003
Impurity content	%	Na 0.05%	0.0012
Impurity content	%	SO4 0.005%	<0.005
Impurity content	%	Zn 0.005%	0.0003
Insoluble material	%	0.005%	0.003
рН		of a 5% solution 3.5-6.0 at 25°	5.78
Trace Metals	ppm	(as Pb) 5ppm	<5

John Astarita

John Astarita Director, Quality

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.