



## **CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by INTERTEK SAI Global Certificate Number. QMS42099

Catalogue Number H/1111 Lot Number 2543907

Description Hydrochloric acid MOS

CAS Number 7647-01-0
Quality Test/Release Date 08/Jul/2025

Expiry Phrase Use within 3 years of packing date

Country of Origin United Kingdom

Result Name	Units	Specifications	Test Value	
Aluminium (Al)	ppm	<= 0.5	<0.05	
Assay	%	>= 35.5 and <= 37.5	35.06	
Barium (Ba)	ppm	<= 0.1	<0.005	
Cadmium (Cd)	ppm	<= 0.05	<0.005	
Calcium (Ca)	ppm	<= 1	<0.2	
Chemical form		Mobile liquid	Mobile liquid	
Chromium (Cr)	ppm	<= 0.1	<0.02	
Cobalt (Co)	ppm	<= 0.02	<0.005	
Colour	APHA	<= 10	<5	
Copper (Cu)	ppm	<= 0.1	<0.01	
Free chlorine (ppm)	ppm	<= 2	<1	
Iron (Fe)	ppm	<= 0.5	<0.2	
Lead (Pb)	ppm	<= 0.1	<0.005	
Lithium (Li)	ppm	<= 0.02	<0.01	
Magnesium (Mg)	ppm	<= 0.5	<0.02	
Manganese (Mn)	ppm	<= 0.02	<0.005	
Molybdenum (Mo)	ppm	<= 0.02	<0.005	
Nickel (Ni)	ppm	<= 0.01	<0.02	
Potassium (K)	ppm	<= 0.5	<0.02	
Sodium (Na)	ppm	<= 2	<0.2	
Strontium (Sr)	ppm	<= 0.02	<0.005	
Titanium (Ti)	ppm	<= 0.02	<0.005	
Total phosphorus (P)	ppm	<= 1	<0.05	
Total silicon (Si)	ppm	<= 0.5	<0.2	
Total sulfur (S)	ppm	<= 5	<0.5	
Vanadium (V)	ppm	<= 0.02	<0.005	
Visual colour		Clear colourless	Clear colourless	
Zinc (Zn)	ppm	<= 0.2	<0.05	

A. Ganatra

Ashok Ganatra 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 use or further manufacturing. 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

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.





its intended use.

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