



## **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/1200 Lot Number 2551943

Description Hydrochloric acid, 1.18 SG ~37% AR For analysis

CAS Number 7647-01-0

Quality Test/Release Date 10/Sep/2025

Expiry Phrase Use within 3 years of packing date

Country of Origin United Kingdom Declaration of Origin Synthetic

BSE/TSE Not directly derived from or manufactured with any animal byproducts in any way

(Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

| Result Name            | Units | Specifications   | Test Value       |
|------------------------|-------|------------------|------------------|
| Aluminium (Al)         | ppm   | <= 0.5           | <0.2             |
| Arsenic (As)           | ppm   | <= 0.01          | <0.005           |
| Assay                  | %     | >= 35 and <= 38  | 36.07            |
| Barium (Ba)            | ppm   | <= 0.1           | <0.005           |
| Cadmium (Cd)           | ppm   | <= 0.02          | <0.005           |
| Calcium (Ca)           | ppm   | <= 1             | <0.5             |
| Chemical form          |       | Mobile liquid    | Mobile liquid    |
| Chromium (Cr)          | ppm   | <= 0.1           | <0.05            |
| Cobalt (Co)            | ppm   | <= 0.02          | <0.005           |
| Colour                 | APHA  | <= 10            | <5               |
| Copper (Cu)            | ppm   | <= 0.1           | <0.01            |
| Free chlorine (ppm)    | ppm   | <= 1             | <1               |
| Iron (Fe)              | ppm   | <= 0.5           | <0.2             |
| Lead (Pb)              | ppm   | <= 0.1           | <0.01            |
| Lithium (Li)           | ppm   | <= 0.02          | <0.01            |
| Magnesium (Mg)         | ppm   | <= 0.5           | <0.1             |
| Manganese (Mn)         | ppm   | <= 0.02          | <0.005           |
| Mercury (Hg)           | ppm   | <= 0.05          | <0.005           |
| Molybdenum (Mo)        | ppm   | <= 0.02          | <0.005           |
| Nickel (Ni)            | ppm   | <= 0.1           | <0.01            |
| Potassium (K)          | ppm   | <= 0.5           | <0.02            |
| Residue after ignition | %     | <= 0.0005        | <0.0002          |
| Silver (Ag)            | ppm   | <= 0.02          | <0.005           |
| Sodium (Na)            | ppm   | <= 2             | <0.2             |
| Strontium (Sr)         | ppm   | <= 0.02          | <0.005           |
| Sulfate (SO4) (ppm)    | ppm   | <= 5             | <1               |
| Tin (Sn)               | ppm   | <= 0.1           | <0.01            |
| Titanium (Ti)          | ppm   | <= 0.05          | <0.005           |
| Total phosphorus (P)   | ppm   | <= 1             | <0.05            |
| Vanadium (V)           | ppm   | <= 0.01          | <0.005           |
| Visual colour          |       | Clear colourless | Clear colourless |
| Zinc (Zn)              | ppm   | <= 0.5           | <0.02            |

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.





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 its intended use.