

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 | 38780 |
| Lot Number | A0466802 |
| Description | Hydrochloric acid,for analysis,25% solution in water |
| CAS Number | 7647-01-0 |
| Quality Test/Release Date | 27/Nov/2024 |
| Suggested retest date | 27/Nov/2029 |
| Country of Origin | BELGIUM |
| Declaration of Origin | synthetic |

| Result Name | Units | Specifications | Test Value |
|------------------------|-------|-----------------|-----------------|
| Appearance (Color) | | Clear colorless | Clear colorless |
| Appearance (Form) | | Solution | Solution |
| Titration with NaOH | % | >=25.0 | 25.77 |
| Residue after ignition | % | ==<0.0005 | ==<0.0005 |
| Aluminium (Al) | % | ==<0.000005 | ==<0.000005 |
| Barium (Ba) | % | ==<0.000002 | ==<0.000002 |
| Bismuth (Bi) | % | ==<0.00001 | ==<0.00001 |
| Calcium (Ca) | % | ==<0.00005 | ==<0.00005 |
| Cadmium (Cd) | % | ==<0.000001 | ==<0.000001 |
| Cobalt (Co) | % | ==<0.000001 | ==<0.000001 |
| Chromium (Cr) | % | ==<0.000002 | ==<0.000002 |
| Copper (Cu) | % | ==<0.000002 | ==<0.000002 |
| Iron (Fe) | % | ==<0.00002 | ==<0.00002 |
| Potassium (K) | % | ==<0.00001 | ==<0.00001 |
| Lithium (Li) | % | ==<0.000001 | ==<0.000001 |
| Magnesium (Mg) | % | ==<0.00001 | ==<0.00001 |
| Manganese (Mn) | % | ==<0.000001 | ==<0.000001 |
| Molybdenum (Mo) | % | ==<0.000002 | ==<0.000002 |
| Sodium (Na) | % | ==<0.00005 | ==<0.00005 |
| Nickel (Ni) | % | ==<0.00002 | ==<0.00002 |
| Lead (Pb) | % | ==<0.000002 | ==<0.000002 |
| Titanium (Ti) | % | ==<0.00001 | ==<0.00001 |
| Vanadium (V) | % | ==<0.000001 | ==<0.000001 |
| Zirconium (Zr) | % | ==<0.00001 | ==<0.00001 |
| Sulfate (SO4) | % | ==<0.0001 | ==<0.0001 |
| Phosphate (PO4) | % | ==<0.00005 | ==<0.00005 |



Geert Torfs
Supervisor, QC

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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.

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