

CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

Product Name	Hydrochloric Acid (AR)
C.A.S. Number	7647-01-0
Molecular Formula	—
Molecular Weight	—
Grade / Standard	35-37% AR/GR
Physical Form	Clear colorless fuming liquid
Product Category	Laboratory & Analytical Reagents
Country of Origin	India

ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Clear colorless fuming liquid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Assay	35.0 – 37.0 % w/w	36.17	Titrimetry / Instrumental
4	Matter Insoluble in Water	Not more than 0.01 % w/w	0.0024	Gravimetry
5	pH (5 % aqueous solution)	As per specification	9.4	Potentiometry
6	Chloride (Cl)	Not more than 0.001 %	0.00028	Turbidimetry
7	Sulphate (SO ₄)	Not more than 0.002 %	0.00034	Turbidimetry
8	Iron (Fe)	Not more than 5 ppm	0.45 ppm	ICP-OES
9	Heavy Metals (as Pb)	Not more than 5 ppm	Less than 2 ppm	ICP-OES
10	Structure	Conforms to reference structure	Complies	FTIR / NMR

Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

Checked and Approved by

Prem Panchal
Quality Assurance
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.