



CERTIFICATE OF ANALYSIS

Product Name: Hydrochloric Acid (HCL) Chemical Formula: HCL

CAS No.: 7647-01-0

HSN Code: 2806 10 00

Batch No.: TRAMETAL/04/2026 Grade: Industrial Grade Packing: 200 Kg HDPE Drums

Certificate of Analysis (15 Test Parameters)

Sr. No.	Test Parameter	Specification	Result	Test Method
1	Assay (HCl)	$\geq 32.0 \%$	32.5 %	Titration
2	Appearance	Clear, colorless liquid	Complies	Visual
3	Moisture	$\leq 1.0 \%$	0.8 %	Karl Fischer
4	Density (20°C)	1.16 – 1.19 g/cm ³	1.17 g/cm ³	Hydrometer
5	pH (Concentrated)	< 1.0	< 1.0	pH Meter
6	Iron (Fe)	$\leq 0.001 \%$	0.0008 %	Spectrophotometer
7	Chloride (as Cl)	$\geq 30.0 \%$	30.5 %	Titration
8	Heavy Metals (Pb)	$\leq 0.0005 \%$	0.0003 %	ICP
9	Sulfuric Acid	$\leq 0.005 \%$	0.003 %	Gravimetric
10	Free Acid (as HCl)	$\geq 32.0 \%$	32.5 %	Titration
11	Boiling Point	~108°C	108.5°C	Distillation
12	Color (APHA)	≤ 15	10	Visual
13	Volatile Impurities	$\leq 0.05 \%$	0.02 %	GC
14	Non-Volatile Residue	$\leq 0.01 \%$	0.005 %	Gravimetric
15	Chloride Ion Concentration	$\geq 30.0 \%$	30.5 %	Titration

Conclusion:

The above material complies with the Industrial Grade Hydrochloric Acid (HCL) specification.

For: DIRHAM LOGISTICS LTD

Quality Control Department



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