

PRODUCT NAME: Hydrochloric Acid

Krystal Pure

CHEMICAL FORMULA: HCL

Product Code: 258100-90000

F.W.: 36.4600

CAS No: 7647-01-0

Density: 1.18

ITEM	SPECIFICATIONS
Appearance	Clear, colorless liquid
Assay (HCI)	37.0 - 38.0%
Color (APHA)	10 max.
Residue After Ignition	3 ppm max.
Ammonium (NH4)	1 ppm Max.
Bromide (Br)	0.005% max.
Free halogens (as CI)	Passes Test
Phosphate (PO4)	0.05 ppm max.
Sulfate (SO4)	0.3 ppm max.
Sulfite (SO3)	0.8 ppm max.
Aluminum (AI)	50 ppb max.
Arsenic and Antimony (as As)	5 ppb max.
Barium (Ba)	20 ppb max.
Beryllium (Be)	10 ppb max.
Bismuth (Bi)	20 ppb max.
Boron (B)	20 ppb max.
Cadmium (Cd)	5 ppb max.
Calcium (Ca)	100 ppb max.
Chromium (Cr)	10 ppb max.
Cobalt (Co)	5 ppb max.
Copper (Cu)	5 ppb max.
Gallium (Ga)	20 ppb max
Germanium (Ge)	20 ppb max.
Gold (Au)	20 ppb max.
Heavy Metals (as Pb)	100 ppb max.
Iron (Fe)	50 ppb max.
Lead (Pb)	20 ppb max.
Lithium (Li)	20 ppb max.
Magnesium (Mg)	50 ppb max.
Manganese (Mn)	5 ppb max.
Molybdenum (Mo)	10 ppb max.
Nickel (Ni)	10 ppb max.
Niobium (Nb)	10 ppb max.
Potassium (K)	50 ppb max.
Silicon (Si)	100 ppb max.
Silver (Ag)	20 ppb max.
Sodium (Na)	100 ppb max.
Strontium (Sr)	20 ppb max.
Tantalum (Ta)	10 ppb max.



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Thallium (TI)	20 ppb max.
Tin (Sn)	50 ppb max.
Titanium (Ti)	10 ppb max.
Vanadium (V)	10 ppb max.
Zinc (Zn)	30 ppb max.
Zirconium (Zr)	10 ppb max.
Particles (> 0.5 micron)	50 particle/mL max.
Particles (≥ 1.0 micron)	10 particles/mL max.
Date of Manufacture	XX/XX/XXXX
Expiration Date	2 years from Date of Manufacture

Remarks:

* When packaged into bottles. Particle count applicable to bottled product only.

The above are the specifications, ranges and limits set for this product.

Eddy Santiago
Quality Assurance Manager

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Document Print Date: 8/13/2025

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