



# Product Specifications

**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 (HCl)	37.0 - 38.0%
Color (APHA)	10 max.
Residue After Ignition	3 ppm max.
Ammonium (NH <sub>4</sub> )	1 ppm Max.
Bromide (Br)	0.005% max.
Free halogens (as Cl)	Passes Test
Phosphate (PO <sub>4</sub> )	0.05 ppm max.
Sulfate (SO <sub>4</sub> )	0.3 ppm max.
Sulfite (SO <sub>3</sub> )	0.8 ppm max.
Aluminum (Al)	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.
Thallium (Tl)	20 ppb max.



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ITEM	SPECIFICATIONS
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.

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Quality Assurance Manager

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