



Product Specifications

PRODUCT NAME: Hydrochloric Acid
High Purity

CHEMICAL FORMULA: HCl

Product Code: 260100-90000
F.W.: 36.4600
CAS No: 7647-01-0
Density: 1.18

ITEM	SPECIFICATIONS
Assay (HCl)	36.5-38.0%
Assay (HCl) Be'	22.7 deg Be' min.
Appearance	Clear, colorless fuming liquid
Appearance (EP)	To pass test
Ammonium (NH ₄)	0.0003% max.
Bromide or Iodide	To pass test
Clarity of Solution	Free from suspended matter/sediment
Color (APHA)	10 max.
Free Bromine or Chlorine	To pass test (0.0001% max.)
Free Chlorine (Cl ₂)	1.0 ppm Max
Heavy Metals (as Pb)	0.0001% max.
Hydrazine	0.1 ppm Max
Identification NF	To pass test
Nonvolatile residue	0.5% Max
Identification FCC	To pass test
Organic Compounds - Total non-fluorine containing organic compounds	5 mg/kg Max
Organic Compounds - Benzene	0.05 mg/kg Max
Organic Compounds - Total fluorinated organic compounds	0.0025% Max
Oxidizing substances (as Cl ₂)	0.003% Max
Reducing Substances	To pass test
Residue After Ignition	0.0005% max.
Phosphate (PO ₄)	50 ppb Max
Specific Gravity at 60°F	Record only (approx. 1.17-1.20)
Sulfate (SO ₄)	0.0001% max.
Sulfite (SO ₃)	0.0001% max.
Aluminum (Al)	300 ppb Max
Antimony (Sb)	4 ppb Max
Arsenic (As)	4 ppb max.
Barium (Ba)	100 ppb Max
Beryllium (Be)	50 ppb Max
Bismuth (Bi)	50 ppb Max
Boron (B)	50 ppb Max
Bromide (Br)	50 ppm Max
Cadmium (Cd)	100 ppb Max
Calcium (Ca)	300 ppb Max
Chromium (Cr)	100 ppb Max
Cobalt (Co)	50 ppb Max
Copper (Cu)	50 ppb Max
Gallium (Ga)	100 ppb Max
Germanium (Ge)	100 ppb Max



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Gold (Au)	100 ppb Max
Iridium (Ir)	2 ppm Max
Iron (Fe)	200 ppb Max
Lead (Pb)	100 ppb Max
Lithium (Li)	100 ppb Max
Magnesium (Mg)	200 ppb Max
Manganese (Mn)	100 ppb Max
Mercury (Hg)	1 ppb Max
Molybdenum (Mo)	50 ppb Max
Nickel (Ni)	50 ppb Max
Palladium (Pd)	2 ppm Max
Platinum (Pt)	2 ppm Max
Potassium (K)	300 ppb Max
Silver (Ag)	50 ppb Max
Sodium (Na)	300 ppb Max
Silicon (Si)	300 ppb Max
Strontium (Sr)	100 ppb Max
Rhodium (Rh)	2 ppm Max
Ruthenium (Ru)	2 ppm Max
Tantalum (Ta)	50 ppb Max
Thallium (Tl)	50 ppb Max
Tin (Sn)	300 ppb Max
Titanium (Ti)	300 ppb Max
Vanadium (V)	50 ppb Max
Zinc (Zn)	100 ppb Max
Zirconium (Zr)	50 ppb Max
Manufacture Date	Record Actual
Expiration Date	Two years from manufacture date

Remarks:

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

Eddy Santiago
Quality Assurance Manager

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