



**ChemPure* Brand
Chemicals**

Cust-Product Code: CP-D1494P
Lot #: 2024091962

...Pure Quality

PRODUCT NAME: **Hydrochloric Acid**
High Purity

F.W.: 36.4600

CHEMICAL FORMULA: HCl

CAS No: 7647-01-0

Density: 1.1800

ANALYTICAL RESULTS		
ITEM	SPECIFICATIONS	ANALYSIS
Assay (HCl)	36.5-38.0%	37.5%
Assay (HCl) Be'	22.7 deg Be' min.	>22.7° Be'
Appearance	Clear, colorless fuming liquid	Passes Test
Appearance (EP)	To pass test	Passes Test
Ammonium (NH ₄)	0.0003% max.	<0.0003%
Bromide or Iodide	To pass test	Passes Test
Clarity of Solution	Free from suspended matter/sediment	Passes Test
Color (APHA)	10 max.	<10
Free Bromine or Chlorine	To pass test (0.0001% max.)	Passes Test (<0.0001%)
Free Chlorine (Cl ₂)	1.0 ppm Max	<0.5 ppm
Heavy Metals (as Pb)	0.0001% max.	<0.00002%
Hydrazine	0.1 ppm Max	<0.001 ppm
Identification NF	To pass test	Passes Test
Nonvolatile residue	0.5% Max	<0.00001%
Identification FCC	To pass test	Passes Test
Organic Compounds - Total non-fluorine containing	5 mg/kg Max	<0.001 mg/kg
Organic Compounds - Benzene	0.05 mg/kg Max	<0.001 mg/kg
Organic Compounds - Total fluorinated organic	0.0025% Max	<0.0000001%
Oxidizing substances (as Cl ₂)	0.003% Max	<0.00001%
Reducing Substances	To pass test	Passes Test
Residue After Ignition	0.0005% max.	<0.0005%
Phosphate (PO ₄)	50 ppb Max	<50 ppb
Specific Gravity at 60°F	Record only (approx. 1.17-1.20)	1.19
Sulfate (SO ₄)	0.0001% max.	<0.00001%
Sulfite (SO ₃)	0.0001% max.	<0.00001%
Aluminum (Al)	300 ppb Max	<100 ppb
Antimony (Sb)	4 ppb Max	<4 ppb
Arsenic (As)	4 ppb max.	<1 ppb

Printed: 9/24/2024



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Barium (Ba)	100 ppb Max	<20 ppb
Beryllium (Be)	50 ppb Max	<10 ppb
Bismuth (Bi)	50 ppb Max	<20 ppb
Boron (B)	50 ppb Max	<20 ppb
Bromide (Br)	50 ppm Max	<50 ppm
Cadmium (Cd)	100 ppb Max	<5 ppb
Calcium (Ca)	300 ppb Max	<100 ppb
Chromium (Cr)	100 ppb Max	<50 ppb
Cobalt (Co)	50 ppb Max	<5 ppb
Copper (Cu)	50 ppb Max	<5 ppb
Gallium (Ga)	100 ppb Max	<20 ppb
Germanium (Ge)	100 ppb Max	<20 ppb
Gold (Au)	100 ppb Max	<20 ppb
Iridium (Ir)	2 ppm Max	<2 ppm
Iron (Fe)	200 ppb Max	<50 ppb
Lead (Pb)	100 ppb Max	<25 ppb
Lithium (Li)	100 ppb Max	<50 ppb
Magnesium (Mg)	200 ppb Max	<50 ppb
Manganese (Mn)	100 ppb Max	<5 ppb
Mercury (Hg)	1 ppb Max	<1 ppb
Molybdenum (Mo)	50 ppb Max	<10 ppb
Nickel (Ni)	50 ppb Max	<10 ppb
Palladium (Pd)	2 ppm Max	<2 ppm
Platinum (Pt)	2 ppm Max	<2 ppm
Potassium (K)	300 ppb Max	<100 ppb
Silver (Ag)	50 ppb Max	<50 ppb
Sodium (Na)	300 ppb Max	<100 ppb
Silicon (Si)	300 ppb Max	<100 ppb

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Strontium (Sr)	100 ppb Max	<20 ppb
Rhodium (Rh)	2 ppm Max	<2 ppm
Ruthenium (Ru)	2 ppm Max	<2 ppm
Tantalum (Ta)	50 ppb Max	<10 ppb
Thallium (Tl)	50 ppb Max	<20 ppb
Tin (Sn)	300 ppb Max	<50 ppb
Titanium (Ti)	300 ppb Max	<10 ppb
Vanadium (V)	50 ppb Max	<10 ppb
Zinc (Zn)	100 ppb Max	<50 ppb
Zirconium (Zr)	50 ppb Max	<10 ppb
Manufacture Date	Record Actual	09/12/2024
Expiration Date	Two years from manufacture date	09/12/2026
REMARKS		

It is certified that the above is a true copy of the actual lot analysis.

Eddy Santiago
Quality Assurance Manager

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