

Chemical Name: Hydrochloric Acid

High Purity Chemical Formula: HCI

Product Code: CP-D1494P Lot #: **2015070906** 

...Pure Quality

F.W.: **36.4600** CAS: **7647-01-0** Density: **1.1800** kg/L

Analytical Results				
ltem	Specifications	Analysis		
Chromium (Cr)	100 ppb Max	<100 ppb		
Clarity of Solution	Free from suspended matter/sediment	Passes Test		
Cobalt (Co)	50 ppb Max	<50 ppb		
Color (APHA)	10 max.	<10		
Copper (Cu)	50 ppb Max	<50 ppb		
Free Bromine or Chlorine	To pass test (0.0001% max.)	Passes Test		
Free Chlorine (Cl2)	1.0 ppm Max	<1.0 ppm		
Gallium (Ga)	100 ppb Max	<100 ppb		
Germanium (Ge)	100 ppb Max	<100 ppb		
Gold (Au)	100 ppb Max	<100 ppb		
Heavy Metals (as Pb)	0.0001% max.	<0.0001%		
Identification FCC	To pass test	Passes Test		
Identification NF	To pass test	Passes Test		
Aluminum (AI)	300 ppb Max	<300 ppb		
Ammonium (NH4)	0.0003% max.	<0.00005%		
Iridium (Ir)	2 ppm Max	<2 ppm		
Iron (Fe)	200 ppb Max	<100 ppb		
Lead (Pb)	100 ppb Max	<100 ppb		
Lithium (Li)	100 ppb Max	<100 ppb		
Magnesium (Mg)	200 ppb Max	<200 ppb		
Antimony (Sb)	4 ppb Max	<4 ppb		
Manganese (Mn)	100 ppb Max	<100 ppb		
Manufacture Date	Record Actual	07/07/2015		
Appearance	Clear, colorless fuming liquid	Passes Test		
Mercury (Hg)	1 ppb Max	<1 ppb		
Appearance (EP)	To pass test	Passes Test		
Molybdenum (Mo)	50 ppb Max	<50 ppb		
Nickel (Ni)	50 ppb Max	<50 ppb		

## Remarks:

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

Kevin Hansen

Quality Assurance Manager

Disclaimer: To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. However, nothing herein shall constitute any express or implied warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose.



Certificate Of Analysis

Chemical Name: Hydrochloric Acid

**High Purity** 

Chemical Formula: HCI

Product Code: CP-D1494P

2015070906 Lot #:

.Pure Quality

F.W.: **36.4600** CAS: 7647-01-0 Density: 1.1800 kg/L

Analytical Results				
ltem	Specifications	Analysis		
Nonvolatile residue	0.5% Max	<0.5%		
Arsenic (As)	4 ppb max.	<4 ppb		
Oxidizing substances (as Cl2)	0.003% Max	<0.003%		
Palladium (Pd)	2 ppm Max	<2 ppm		
Phosphate (PO4)	50 ppb Max	<50 ppb		
Platinum (Pt)	2 ppm Max	<2 ppm		
Potassium (K)	300 ppb Max	<300 ppb		
Reducing Substances	To pass test	Passes Test		
Residue After Ignition	0.0005% max.	<0.0005%		
Rhodium (Rh)	2 ppm Max	<2 ppm		
Ruthenium (Ru)	2 ppm Max	<2 ppm		
Silicon (Si)	300 ppb Max	<300 ppb		
Silver (Ag)	50 ppb Max	<50 ppb		
Sodium (Na)	300 ppb Max	<300 ppb		
Specific Gravity at 60°F	Record only (approx. 1.17-1.20)	1.18		
Strontium (Sr)	100 ppb Max	<100 ppb		
Sulfate (SO4)	0.0001% max.	<0.0005%		
Sulfite (SO3)	0.0001% max.	<0.0007%		
Tantalum (Ta)	50 ppb Max	<50 ppb		
Thallium (TI)	50 ppb Max	<50 ppb		
Tin (Sn)	300 ppb Max	<300 ppb		
Titanium (Ti)	300 ppb Max	<300 ppb		
Vanadium (V)	50 ppb Max	<50 ppb		
Zinc (Zn)	100 ppb Max	<100 ppb		
Zirconium (Zr)	50 ppb Max	<50 ppb		
Hydrazine	0.1 ppm Max	<0.1 ppm		
Organic Compounds - Total	5 mg/kg Max	<5 mg/kg		

non-fluorine containing organic

compounds

Remarks:

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

Lette Kevin Hansen

Quality Assurance Manager

Disclaimer: To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. However, nothing herein shall constitute any express or implied warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose.



Lot#:

Chemical Name: Hydrochloric Acid

High Purity

Chemical Formula: HCl

.Pure Quality

2015070906

F.W.: **36.4600** CAS: **7647-01-0** Density: **1.1800** kg/L

Product Code: CP-D1494P

Analytical Results			
Item	Specifications	Analysis	
Organic Compounds - Benzene	0.05 mg/kg Max	<0.05 mg/kg	
Organic Compounds - Total fluorinated organic compounds	0.0025% Max	<0.0025%	
Assay (HCI)	36.5-38.0%	36.9%	
Assay (HCI) Be'	22.7 deg Be' min.	>22.7° Be'	
Barium (Ba)	100 ppb Max	<100 ppb	
Beryllium (Be)	50 ppb Max	<50 ppb	
Bismuth (Bi)	50 ppb Max	<50 ppb	
Boron (B)	50 ppb Max	<50 ppb	
Bromide (Br)	50 ppm Max	<50 ppm	
Bromide or lodide	To pass test	Passes Test	
Cadmium (Cd)	100 ppb Max	<100 ppb	
Calcium (Ca)	300 ppb Max	<300 ppb	

Manufactured Date: 07/07/2015 Retest Date: 07/06/2018

## Remarks:

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

Kevin Hansen

Quality Assurance Manager

Disclaimer: To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. However, nothing herein shall constitute any express or implied warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose.