



COLUMBUS CHEMICAL INDUSTRIES

# Certificate of Analysis

PRODUCT NAME: Hydrochloric Acid  
ACS

CHEMICAL FORMULA: HCl

Cust-Product Code:	CP-D1495P
Product Code:	257500-80419
Lot #:	2019040433
F.W.:	36.46
CAS No:	7647-01-0
Density:	1.1800

## ANALYTICAL RESULTS

ITEM	SPECIFICATIONS	ANALYSIS
Appearance	Clear, colorless liquid	Passes Test
Assay (HCl)	36.5 - 38.0%	37.5%
Color (APHA)	10 max.	2
Residue After Ignition	5 ppm max.	<5 ppm
Bromide (Br)	0.005% max.	<0.005%
Sulfate (SO4)	1 ppm max.	<0.1 ppm
Sulfite (SO3)	1 ppm max.	<0.1 ppm
Free Chlorine (Cl2)	1 ppm max.	<0.5 ppm
Ammonium (NH4)	3 ppm max.	<3 ppm
Arsenic (As)	0.01 ppm max.	<0.01 ppm
Heavy Metals	1 ppm max.	<0.01 ppm
Iron (Fe)	0.2 ppm max.	<0.01 ppm
Manufacture Date	Record Actual	03/29/2019
Recommended Retest Date	Report Actual	03/28/2021

## REMARKS

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

CERTIFIED CORRECT BY:

Eddy Santiago  
Quality Assurance Manager

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