



**ChemPure\* Brand  
Chemicals**

Cust-Product Code: CP-A1495P  
Lot #: 2022081890

...Pure Quality

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: **Hydrochloric Acid**  
ACS

F.W.: 36.4600

CHEMICAL FORMULA: HCl

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%	37.4%
Color (APHA)	10 max.	2
Residue After Ignition	5 ppm max.	<5 ppm
Bromide (Br)	0.005% max.	<0.005%
Sulfate (SO <sub>4</sub> )	1 ppm max.	<0.1 ppm
Sulfite (SO <sub>3</sub> )	1 ppm max.	<0.1 ppm
Free Chlorine (Cl <sub>2</sub> )	1 ppm max.	<1 ppm
Ammonium (NH <sub>4</sub> )	3 ppm max.	<3 ppm
Arsenic (As)	0.01 ppm max.	<0.01 ppm
Heavy metals (by ICP-OES)	1 ppm max.	<0.01 ppm
Iron (Fe)	0.2 ppm max.	<0.01 ppm
Manufacture Date	Record Actual	08/15/2022
Recommended Retest Date	Report Actual	08/14/2024

### REMARKS

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

Eddy Santiago  
Quality Assurance Manager

Important. It is certified that the above is a true copy of the actual lot analysis. 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. The minimum shelf life is based on current knowledge and holds only for proper storage conditions in the original containers. We herewith confirm that the delivery is effected according to the technical conditions agreed. Particular properties of the products or the suitability for a particular area of application is not assured. It is the customer's responsibility to inspect and test the products in order to satisfy itself as to the suitability for the customer's particular purpose. This information is not intended to be all inclusive as to the manner and conditions of use, handling, storage, disposal, and other factors that may involve other or additional legal, environmental, safety or performance considerations, and CHEMPURE BRAND CHEMICALS assumes no liability whatsoever for the use of or reliance upon this information. Our technical personnel will be happy to respond to questions. Safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, recommendations to infringe any existing patents or to violate any Federal, State, Local or foreign laws. This document was produced electronically and is valid without a signature. ChemPure Quality Management.

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Chemicals**

Cust-Product Code: CP-M1495P  
Lot #: 2022081890

...Pure Quality

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: **Hydrochloric Acid**  
ACS

F.W.: 36.4600

CHEMICAL FORMULA: HCl

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%	37.4%
Color (APHA)	10 max.	2
Residue After Ignition	5 ppm max.	<5 ppm
Bromide (Br)	0.005% max.	<0.005%
Sulfate (SO <sub>4</sub> )	1 ppm max.	<0.1 ppm
Sulfite (SO <sub>3</sub> )	1 ppm max.	<0.1 ppm
Free Chlorine (Cl <sub>2</sub> )	1 ppm max.	<1 ppm
Ammonium (NH <sub>4</sub> )	3 ppm max.	<3 ppm
Arsenic (As)	0.01 ppm max.	<0.01 ppm
Heavy metals (by ICP-OES)	1 ppm max.	<0.01 ppm
Iron (Fe)	0.2 ppm max.	<0.01 ppm
Manufacture Date	Record Actual	08/15/2022
Recommended Retest Date	Report Actual	08/14/2024

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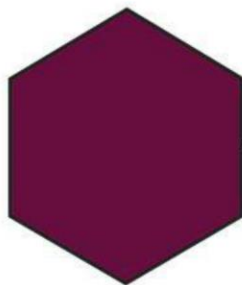
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**ChemPure\* Brand  
Chemicals**

Cust-Product Code: CP-I2327D  
Lot #: 2022012421

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## CERTIFICATE OF ANALYSIS

PRODUCT NAME: **Sodium Chloride**  
Crystal, ACS

F.W.: 58.4400

CHEMICAL FORMULA: NaCl

CAS No: 7647-14-5

Density: 1.0000

### ANALYTICAL RESULTS

ITEM	SPECIFICATIONS	ANALYSIS
Assay (NaCl)	99.0 % min.	99.8%
pH of a 5% solution at 25°C	5.0-9.0	7.1
Insoluble Matter	0.005% max.	0.002%
Iodide (I)	0.002% max.	<0.002%
Bromide (Br)	0.01% max.	<0.01%
Chlorate and nitrate (as NO <sub>3</sub> )	0.003% max	<0.003%
Phosphate (PO <sub>4</sub> )	5 ppm max.	<5 ppm
Sulfate (SO <sub>4</sub> )	0.004% max.	<0.004%
Barium (Ba)	To pass test	Passes Test
Heavy metals (by ICP-OES)	5 ppm max.	2 ppm
Iron (Fe)	2 ppm max.	<2 ppm
Calcium (Ca)	0.002% max.	<0.001%
Magnesium (Mg)	0.001% max.	<0.001%
Potassium (K)	0.005% max.	0.004%
Date of Manufacture	Record Actual	12/08/2021
Expiration date	Record Actual	12/07/2026

### REMARKS

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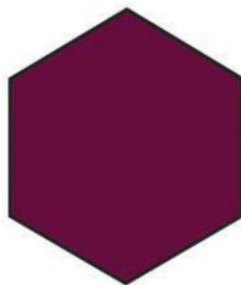
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Quality Assurance Manager

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**ChemPure\* Brand  
Chemicals**

Cust-Product Code: CP-S2488D  
Lot #: 2022041165

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## CERTIFICATE OF ANALYSIS

PRODUCT NAME: **Sodium Sulfate**  
10-60 Mesh, ACS, Pesticide

F.W.: 142.0400

CHEMICAL FORMULA: Na<sub>2</sub>SO<sub>4</sub>

CAS No: 7757-82-6

Density: 2.6900

ANALYTICAL RESULTS		
ITEM	SPECIFICATIONS	ANALYSIS
Description	White granules	Passes Test
Assay (Na <sub>2</sub> SO <sub>4</sub> )	99.0% min.	99.6%
pH of a 5% solution at 25°C	5.2 - 9.2	6.4
Insoluble Matter	0.01% max.	0.004%
Loss on Ignition	0.5% max.	0.2%
Chloride (Cl)	0.001% max.	<0.001%
Nitrogen Compounds (as N)	5 ppm max.	<5 ppm
Phosphate (PO <sub>4</sub> )	0.001% max.	<0.001%
Heavy metals (by ICP-OES)	5 ppm max.	<5 ppm
Iron (Fe)	0.001% max.	<0.001%
Calcium (Ca)	0.01% max.	0.001%
Magnesium (Mg)	0.005% max.	0.0005%
Potassium (K)	0.01% max.	0.002%
Mesh Size (10-60)	90.0% min.	94.8%
Suitability for EPA method 8081A	To pass test	Passes Test
REMARKS		

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