

**ChemPure\* Brand  
Chemicals**

Cust-Product Code: CP-D1495P  
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.

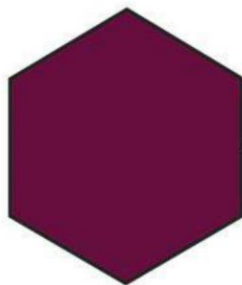
Eddy Santiago  
Quality Assurance Manager

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**ChemPure\* Brand  
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
REMARKS		

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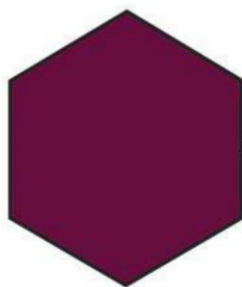
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**ChemPure\* Brand  
Chemicals**

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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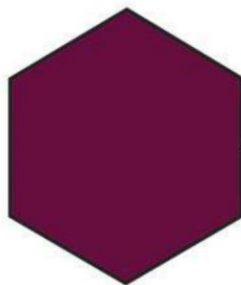
Eddy Santiago  
Quality Assurance Manager

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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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