



**ChemPure\* Brand  
Chemicals**

Cust-Product Code: CP-M1010S  
Lot #: 2020031850

...Pure Quality

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: **Acetic Acid**  
Glacial, ACS

F.W.: 60.0500

CHEMICAL FORMULA: CH<sub>3</sub>COOH

CAS No: 64-19-7

Density: 1.0510

| ANALYTICAL RESULTS               |                   |              |
|----------------------------------|-------------------|--------------|
| ITEM                             | SPECIFICATIONS    | ANALYSIS     |
| Assay (CH <sub>3</sub> COOH)     | 99.7% min.        | 100.0%       |
| Color (APHA)                     | 10 max.           | <5           |
| Chloride (Cl)                    | 1 ppm max.        | <1 ppm       |
| Heavy metals (by ICP-OES)        | 0.5 ppm max.      | <0.5 ppm     |
| Sulfate (SO <sub>4</sub> )       | 1 ppm max.        | <1 ppm       |
| Substances Reducing Permanganate | To pass test      | Passes Test  |
| Substances Reducing Dichromate   | To pass test      | Passes Test  |
| Residue After Evaporation        | 0.001% max.       | <0.001%      |
| Iron (Fe)                        | 0.2 ppm max.      | <0.2 ppm     |
| Dilution Test                    | To pass test      | Passes Test  |
| Acetic Anhydride                 | 0.01% max.        | <0.01%       |
| Titration Base                   | 0.0004 meq/g max. | 0.0002 meq/g |
| Date of Manufacture              | Record Actual     | 01/22/2020   |
| Expiration date                  | Record Actual     | 01/21/2022   |

### REMARKS

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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**ChemPure\* Brand  
Chemicals**

Cust-Product Code: CP-M1010S  
Lot #: 2020040699

...Pure Quality

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: **Acetic Acid**  
Glacial, ACS  
CHEMICAL FORMULA: CH<sub>3</sub>COOH

F.W.: 60.0500  
CAS No: 64-19-7  
Density: 1.0510

| ANALYTICAL RESULTS               |                   |              |
|----------------------------------|-------------------|--------------|
| ITEM                             | SPECIFICATIONS    | ANALYSIS     |
| Assay (CH <sub>3</sub> COOH)     | 99.7% min.        | 99.9%        |
| Color (APHA)                     | 10 max.           | <5           |
| Chloride (Cl)                    | 1 ppm max.        | <1 ppm       |
| Heavy metals (by ICP-OES)        | 0.5 ppm max.      | <0.5 ppm     |
| Sulfate (SO <sub>4</sub> )       | 1 ppm max.        | <1 ppm       |
| Substances Reducing Permanganate | To pass test      | Passes Test  |
| Substances Reducing Dichromate   | To pass test      | Passes Test  |
| Residue After Evaporation        | 0.001% max.       | <0.001%      |
| Iron (Fe)                        | 0.2 ppm max.      | <0.1 ppm     |
| Dilution Test                    | To pass test      | Passes Test  |
| Acetic Anhydride                 | 0.01% max.        | <0.01%       |
| Titration Base                   | 0.0004 meq/g max. | 0.0001 meq/g |
| Date of Manufacture              | Record Actual     | 01/23/2020   |
| Expiration date                  | Record Actual     | 01/22/2022   |

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**ChemPure\* Brand  
Chemicals**

Cust-Product Code: CP-C2556P  
Lot #: 2020052016

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## CERTIFICATE OF ANALYSIS

PRODUCT NAME: **Sulfuric Acid, Babcock**  
SG 1.820 - 1.830 Milk

F.W.: 98.0800

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

CAS No: 7664-93-9

Density: 1.8344

| ANALYTICAL RESULTS                                       |                                  |             |
|--|----------------------------------|-------------|
| ITEM   | SPECIFICATIONS                   | ANALYSIS    |
| Appearance   | Colorless to slight brown liquid | Passes Test |
| Specific gravity @ 15.5°C                                | 1.820 - 1.830                    | 1.826       |
| Manufacture Date   | Record Actual                    | 05/20/2020  |
| Expiration date  | Record Actual                    | 05/20/2022  |
| REMARKS  |                                  |             |
| This item is certified against NIST traceable standards. |                                  |             |
|  |                                  |             |

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