

**Certificate of Analysis**

S9191-2.5L  
400226



Date of Release: 10/3/2023  
 Name: Sulfuric Acid  
 GR ACS  
 Meets ACS Specifications  
 Item No: SX1244 all size codes  
 Lot / Batch No: 63221  
 Country of Origin: USA

| Characteristic                            | Requirement |      | Results                                 | Units |
|---|-------------|------|---|-------|
|   | Min.        | Max. |   |       |
| Aluminum (Al)                             |             | 0.2  | < 0.2                                   | ppm   |
| Ammonium (NH4)                            |             | 2    | < 2                                     | ppm   |
| Appearance                                |             |      | Free from suspended or insoluble matter |       |
| Arsenic (As)                              |             | 0.01 | < 0.01                                  | ppm   |
| Assay                                     | 95.0        | 98.0 | 95.90                                   | %     |
| Calcium (Ca)                              |             | 0.3  | < 0.3                                   | ppm   |
| Chloride (Cl)                             |             | 0.2  | 0.20                                    | ppm   |
| Chromium (Cr)                             |             | 0.2  | < 0.2                                   | ppm   |
| Color (APHA)                              |             | 10   | < 10                                    |       |
| Copper (Cu)                               |             | 0.1  | < 0.1                                   | ppm   |
| Gold (Au)                                 |             | 0.3  | < 0.3                                   | ppm   |
| Heavy metals (as Pb)                      |             | 1    | 1                                       | ppm   |
| Iron (Fe)                                 |             | 0.2  | < 0.20                                  | ppm   |
| Lead (Pb)                                 |             | 0.3  | < 0.3                                   | ppm   |
| Magnesium (Mg)                            |             | 0.3  | < 0.3                                   | ppm   |
| Manganese (Mn)                            |             | 0.2  | < 0.20                                  | ppm   |
| Mercury (Hg)                              |             | 5    | < 5                                     | ppb   |
| Nickel (Ni)                               |             | 0.1  | < 0.1                                   | ppm   |
| Nitrate (NO3)                             |             | 0.5  | 0.50                                    | ppm   |
| Potassium (K)                             |             | 0.3  | < 0.3                                   | ppm   |
| Residue after ignition                    |             | 5    | < 5                                     | ppm   |
| Sodium (Na)                               |             | 0.3  | < 0.3                                   | ppm   |
| Substances reducing permanganate (as SO2) |             | 2    | < 2                                     | ppm   |
| Tin (Sn)                                  |             | 0.2  | < 0.2                                   | ppm   |
| Titanium (Ti)                             |             | 0.3  | < 0.3                                   | ppm   |
| Zinc (Zn)                                 |             | 0.2  | < 0.2                                   | ppm   |

Michael Hutchinson,  
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 Quality Control Manager

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