

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-10-20 08:54:17  
 Date of Next Testing: 2027-10-19 08:54:17  
 Product Name: **1,3-propanesulfonate**  
 CAS Number: 1120-71-4  
 Specifications & Purity:  $\geq 99\%$   
 Lot #: J2310475  
 SKU #: **P105652**  
 Version: **3**  
 Analysis #: **280391**  
 Storage Temperature: Store at 2-8°C, Argon charged

| Parameter             | Limit Values                                      | Result                                            |
|-----------------------|---------------------------------------------------|---------------------------------------------------|
| Crystallization point | 30-33 (°C)                                        | 31.82000 °C                                       |
| Purity(GC)            | 99-100 (%)                                        | 99.65600 %                                        |
| Appearance (P105652)  | Colorless to Brown Liquid or White to Brown Solid | Colorless to Brown Liquid or White to Brown Solid |
| Proton NMR spectrum   | Conforms to Structure                             | Conforms to Structure                             |
| Infrared spectrum     | Conforms to Structure                             | Conforms to Structure                             |



John Su  
QA & QC Manager