

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-13 17:18:44

Date of Next Testing: 2028-12-12 17:18:44

Product Name: **Nafion™ perfluorinated resin solution**

CAS Number: 31175-20-9

Specifications & Purity: Polymer Content:5.0-5.4%,Water Content:42-48%,VOC Content:47-53%,Total Acid Capacity:1.03-1.12meq/g

Lot #: L2411226

SKU #: **P400486**

Version: **1**

**Analysis #:** **077848**

Storage Temperature: Store at 2-8°C

| Parameter                         | Limit Values          | Result                |
|-----------------------------------|-----------------------|-----------------------|
| Water by Karl Fischer             | 42-48 (%)             | 45.90000 %            |
| Assay(Perfluorosulfonic Acid/TFE) | 5-5.4 (%)             | 5.30000 %             |
| 1-Propanol                        | 45-51 (%)             | 47.40000 %            |
| (meq/g) H+Available Acid Capacity | > 1                   | 1.04000               |
| (meq/g) H+Total Acid Capacity     | 1.03-1.12             | 1.04000               |
| Viscosity(25°C,CP)                | 10-40                 | 11.00000              |
| Appearance(P400486)               | Colorless Liquid      | Colorless liquid      |
| Infrared spectrum                 | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager