

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-12-15 11:03:43

Date of Next Testing: 2027-12-14 11:03:43

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

CAS Number: 31175-20-9(Water)

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 #: L2313060

SKU #: **P400486**

Version: **1**

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

Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Water by Karl Fischer	42-48 (%)	45.90%
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