

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-04-07 17:00:47

Date of Next Testing: 2027-04-06 17:00:47

Product Name: **2,2-Difluoroethanol**

CAS Number: 359-13-7

Specifications &amp; Purity: 97%

Lot #: C23311669

SKU #: **D102785****Analysis: 142352**

| Parameter                           | Limit Values                               | Result                                     |
|-------------------------------------|--------------------------------------------|--------------------------------------------|
| Density (20°C)                      | 1.3-1.304                                  | 1.30                                       |
| Purity(GC)                          | 97-100 (%)                                 | 99.39 %                                    |
| Refractive index n <sub>20</sub> /D | 1.332-1.336                                | 1.33                                       |
| Appearance (D102785)                | Colorless to Almost colorless clear liquid | Colorless to almost colorless clear liquid |
| NMR Spectrum 1H                     | Conforms to Structure                      | Conforms to Structure                      |

A handwritten signature in black ink that reads "John Su".John Su  
QA & QC Manager