

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-09-28 11:27:38  
 Date of Next Testing: 2027-09-27 11:27:38  
 Product Name: **4,5-Difluoro-1,2-phenylenediamine**  
 CAS Number: 76179-40-3  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: A2002137  
 SKU #: **D122657**  
 Version: **0**  
 Analysis #: **281436**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                    | Limit Values                                      | Result                                            |
|------------------------------|---------------------------------------------------|---------------------------------------------------|
| Purity(GC)                   | 97-100 (%)                                        | 97.90400 %                                        |
| Melting point                | 129-134 (°C)                                      | 131.70000 °C                                      |
| Purity(Nonaqueous Titration) | 96.5-103.5 (%)                                    | 98.90000 %                                        |
| Appearance (D122657)         | White to brown to black powder、crystals or chunks | White to brown to black powder、crystals or chunks |
| Infrared spectrum            | Conforms to Structure                             | Conforms to Structure                             |



John Su  
QA & QC Manager