

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-15 18:09:50  
Date of Next Testing: 2027-03-14 18:09:50  
Product Name: **Heptyl p-Toluenesulfonate**  
CAS Number: 24767-82-6  
Specifications & Purity: 98%  
Lot #: C2311291  
SKU #: **H157122**  
**Analysis: 178351**  
Storage Temperature: Argon charged

| Parameter                           | Limit Values          | Result                |
|-------------------------------------|-----------------------|-----------------------|
| Refractive index n <sub>20</sub> /D | 1.496-1.503           | 1.50                  |
| Purity(GC)                          | 98-100 (%)            | 98.54 %               |
| NMR Spectrum 1H                     | Conforms to Structure | Conforms to Structure |

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager