

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-12 15:03:24  
Date of Next Testing: 2025-05-11 15:03:24  
Product Name: **2-(Dodecylthiocarbonothioylthio)-2-methylpropionic acid**  
CAS Number: 461642-78-4  
Specifications & Purity:  $\geq 97\%$  (HPLC)  
Lot #: E2308791  
SKU #: **D138874**  
**Analysis: 215068**  
Storage Temperature: Store at 2-8°C

| Parameter                    | Limit Values                                      | Result  |
|------------------------------|---|---|
| Carbon by Elemental Analysis | 54.6-57.4 (%)                                     | 55.03 %   |
| Purity(HPLC)                 | 97-100 (%)  | 99.85500 %  |
| Purity (Titration by NaOH)   | 96.5-103.5 (%)                                    | 101.85 %  |
| Sulfur by Elemental Analysis | 25.7-27 (%)                                       | 26.00 %   |
| Appearance (D138874)         | White to Yellow to Tan Powder, Crystals or Chunks | White to Yellow to Tan Powder, Crystals or Chunks |
| Proton NMR spectrum          | Conforms to Structure                             | Conforms to Structure                             |



John Su  
QA & QC Manager