

## Certificate of Analysis

Date of Testing: 2024-05-11 14:14:54

Date of Next Testing: 2028-05-10 14:14:54

Product Name: **Dodecylbenzenesulfonic Acid (soft type) (mixture)**

CAS Number: 27176-87-0

Specifications & Purity:  $\geq 90\%$ , Metal < 200ppm

Lot #: D2422347

SKU #: **D598867**

Version: **1**

Analysis #: **336037**

Storage Temperature: Store at 2-8°C

| Parameter                      | Limit Values                                                  | Result                                                        |
|--------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| Petroleum ether soluble matter | 0-2.5 (%)                                                     | 0.00 %                                                        |
| Purity (Titration by NaOH)     | 89.5-110.5 (%)                                                | 103.24 %                                                      |
| Sulfate(SO <sub>4</sub> )      | 0-10000 (ppm)                                                 | 7117.00000 ppm                                                |
| Chloride (Cl <sup>-</sup> )    | 0-1500 (ppm)                                                  | 0.00 ppm                                                      |
| metals,%                       | 0-200 (ppm)                                                   | 41.00000 ppm                                                  |
| Water by Karl Fischer          | 0-3 (%)                                                       | 1.34 %                                                        |
| Neutralization Value           | 177-187                                                       | 178.00                                                        |
| Appearance(D598867)            | Colorless to Yellow to Amber to Brown Viscous Liquid or solid | Colorless to Yellow to Amber to Brown Viscous Liquid or solid |
| Infrared spectrum              | Conforms to Structure                                         | Conforms to Structure                                         |
| NMR Spectrum 1H                | Conforms to structure                                         | Conforms to Structure                                         |



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