

## Certificate of Analysis

Date of Testing: 2024-11-12 08:28:44

Date of Next Testing: 2027-11-12 08:28:44

Product Name: N-[3-(dimethylamino)propyl] coco amides

CAS Number: 68140-01-2

Specifications & Purity: Total amine value: 178-188mgKOH/g

Lot #: J2431383

SKU #: N304368

Version: 1

Analysis #: 414434

Storage Temperature: Room temperature

| Parameter             | Limit Values                                    | Result                                          |
|-----------------------|-------------------------------------------------|-------------------------------------------------|
| Acid Value            | 0-10 (%)                                        | 0.38 %                                          |
| The total amine value | 178-188 (mgKOH/g)                               | 188.00000 mgKOH/g                               |
| Infrared spectrum     | Conforms to Structure                           | Conforms to Structure                           |
| Appearance(N304368)   | White to Light yellow to yellow liquid or soild | White to Light yellow to yellow liquid or soild |



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QA & QC Manager