

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| <b>Catalogue Number</b>  | 37419                                           |
| <b>Product</b>           | <b>N-Oleoylethanolamine</b>                     |
| <b>Lot Number</b>        | 003117-20200402                                 |
|                          | N-(Hydroxyethyl)oleamide                        |
| <b>CAS Number</b>        | 111-58-0                                        |
| <b>Molecular Formula</b> | C <sub>20</sub> H <sub>39</sub> NO <sub>2</sub> |
| <b>Molecular Weight</b>  | 325.53                                          |

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|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Appearance</b>                  | White to off-white crystalline powder                                                                           |
| <b>Melting Point</b>               | 58.4 - 60.2 °C                                                                                                  |
| <b>Heavy Metals</b>                | Lead (Pb) : < 0.5 mg/Kg<br>Arsenic (As) : < 1.5 mg/Kg<br>Cadmium (Cd) : < 0.5 mg/Kg<br>Mercury (Hg) : < 3 mg/Kg |
| <b>Anion</b>                       | Chloride : < 0.02%                                                                                              |
| <b>Water Content (Karl Fisher)</b> | 0.64%                                                                                                           |
| <b>Yeast and Mold</b>              | < 300 cfu/g                                                                                                     |
| <b>Loss on Drying</b>              | 0.72%                                                                                                           |
| <b>Residual Solvents</b>           | Methanol : Not detected<br>Ethyl acetate : Not detected                                                         |
| <b>Coliform Organisms</b>          | < 10 cfu/g                                                                                                      |
| <b>E. Coli</b>                     | Negative / 10g                                                                                                  |
| <b>Microbial Count</b>             | < 10,000 cfu/g (TPC)                                                                                            |
| <b>Pseudomonas Aeruginosa</b>      | Negative / 25 g                                                                                                 |
| <b>Salmonella</b>                  | Negative / 25 g                                                                                                 |
| <b>Staphylococcus Aureus</b>       | Negative / 10g                                                                                                  |
| <b>Residue On Ignition</b>         | 0.07%                                                                                                           |
| <b><sup>1</sup>H NMR</b>           | Conforms to structure                                                                                           |
| <b>Purity by HPLC</b>              | 99.7%                                                                                                           |
| <b>Storage</b>                     | Store at -10 °C                                                                                                 |

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**Lot Number: 003117-20200402**

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**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

**Bala Kumar**  
**Quality Control Manager**