

## Product Data Sheet

### Oleic Acid - Technical / Industrial Grade (Red Oil)

#### Description

|                     |                                                                                                                                                                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Oleic Acid is a mono-unsaturated long-chain fatty acid derived from vegetable or animal fats, commonly traded in technical/industrial grade ("Red Oil"). It is a widely used raw material across soap manufacturing, textile processing, metalworking fluids, cosmetics and corrosion-inhibitor formulations. |
| <b>Applications</b> | Soap and metallic soap manufacturing<br>Textile processing – emulsifiers, softeners, spin finishes<br>Metalworking fluids and lubricant additives<br>Cosmetics, PVC stabiliser components and corrosion inhibitors                                                                                            |
| <b>Grade</b>        | Technical/Industrial Grade (Red Oil), Min. 70% Oleic Acid                                                                                                                                                                                                                                                     |
| <b>CAS No.</b>      | 112-80-1                                                                                                                                                                                                                                                                                                      |

#### Key Benefits

1. Good emulsifying and lubricating properties across industrial formulations
2. Cost-effective technical grade suited to soap, textile and metalworking applications
3. Consistent acid value and iodine value supporting reliable formulation performance
4. Liquid at room temperature for ease of handling and dosing
5. Widely available, actively traded commodity fatty acid

#### Chemical Analysis & Physical Data

##### Typical Specification

| Parameter          | Unit | Specification             |
|--------------------|------|---------------------------|
| Oleic Acid Content | wt%  | Min. 70.0 (typical 70-80) |

| Parameter            | Unit      | Specification                    |
|----------------------|-----------|----------------------------------|
|                      |           |                                  |
| Acid Value           | mg KOH/g  | 195 - 202                        |
| Iodine Value         | g I2/100g | 85 - 95                          |
| Saponification Value | mg KOH/g  | 195 - 202                        |
| Colour (Gardner)     | -         | 3 - 7                            |
| Moisture             | wt%       | Max. 0.5                         |
| Appearance           | -         | Pale yellow to amber oily liquid |

## Packaging

**Packaging**     200 kg (Net) HDPE/Steel Drums  
Flexitank / ISO Tank for bulk liquid shipment  
Custom packaging available on request.

## Storage & Handling

1. Store in a cool, dry, covered area away from direct sunlight
2. Keep containers tightly closed to minimise oxidation, discolouration and odour development
3. Avoid prolonged storage at elevated temperatures
4. Keep away from strong oxidising agents
5. Use appropriate PPE (gloves, goggles) when handling

## Quality Assurance

1. Every batch is tested against the specification above before dispatch

2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting oleic acid content, acid value and iodine value against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

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*Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.*