

## TECHNICAL DATA SHEET: COCONUT OIL (CNO)

### 1. CHEMICAL & PHYSICAL SPECIFICATIONS

- Free Fatty Acids (as Lauric): Max 0.1% (RBD) / Max 3.0% (Crude)
- Moisture & Impurities (M&I): Max 0.1% (RBD) / Max 0.5% (Crude)
- Iodine Value (Wijs): 7.0 – 11.0 \$g \ I\_2/100g\$
- Saponification Value: 250 – 264 \$mg \ KOH/g\$
- Slip Melting Point: 23°C – 26°C
- Peroxide Value: Max 1.0 \$meq \ O\_2/kg\$ (at production)
- Color (Lovibond 5.25"): Max 1.5 Red / 15 Yellow (RBD)
- Unsaponifiable Matter: Max 0.8%
- Refractive Index (40°C): 1.448 – 1.450

### 2. TYPICAL FATTY ACID PROFILE (%)

- C8:0 Caprylic: 5.0 – 9.0
- C10:0 Capric: 5.0 – 10.0
- C12:0 Lauric: 45.0 – 53.0 (Primary Fatty Acid)
- C14:0 Myristic: 16.0 – 21.0
- C16:0 Palmitic: 7.0 – 10.0
- C18:1 Oleic: 5.0 – 10.0

### 3. SAFETY, CONTAMINANTS & LOGISTICS

- Appearance: Solid white at <23°C / Clear liquid at >26°C.
- Mineral Oil: Compliant with FOSFA/EU limits (Max 50 mg/kg).
- Heavy Metals: Pb < 0.1 mg/kg | As < 0.1 mg/kg.
- Aflatoxins: Compliant with EU food safety regulations.
- Previous Cargoes: Must comply with FOSFA Accepted List.
- Storage: In bulk tanks (heated for discharge) or drums in cool, dry areas.

### 4. COMPLIANCE DECLARATION

Product is obtained from the kernel (copra) of the Coconut (*Cocos nucifera L.*). It is fit for human consumption or further processing (RBD). Quality meets FOSFA standards.