

SPECIFICATION

Product Name: Flaxseed Oil
Chemical Formula: N/A
CAS Number: 8001-26-1
Molecular Weight: 873.34 g/mol
Appearance: A clear yellow liquid
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value
Relative Density @ 20°C	g/ml	0.92
Refractive index @ 20°C	-	1.479
Acid value	-	0.1
Saponification value	-	191.55
Unsaponifiable matter	-	0.32
Peroxide value	-	0.5

Physical Properties

- Solubility: Insoluble in water. Soluble in ethanol. Soluble in ether. Soluble in chloroform.
Soluble in hexane. Soluble in vegetable oil. Soluble in acetone.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store Flaxseed Oil in a cool, dry, and dark place, preferably below 25°C, protected from direct sunlight, excessive heat, moisture, and contamination. Keep the container tightly closed in the original packaging to minimize exposure to air and oxygen and prevent oxidation and rancidity. After opening, refrigeration at 2–8°C is recommended for improved stability. Avoid prolonged exposure to high temperatures and repeated heating. Store away from strong oxidizing agents and incompatible materials.

Applications

- Use: Widely used in food, nutraceutical, dietary supplement, pharmaceutical, cosmetic, and personal care formulations as a natural source of alpha-linolenic acid (ALA), an omega-3 fatty acid. It is commonly incorporated into softgel capsules, oral supplements, functional foods, beverages, salad dressings, nutritional products, and fortified formulations. In cosmetic and personal care applications, it may be used as an emollient and skin-conditioning ingredient in creams, lotions, hair-care products, and massage oils. It is also used as a nutritional oil to support formulations requiring plant-based omega-3 fatty acids.
- Dosage: Depends on the intended application, formulation, age, and nutritional requirements.

Packaging

- Standard Packing: 25 Liter Plastic Can and 1 Liter or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.