

Oleic acid

Parameters	Value (%)	Test Method
C8	0.01	Isiri 13126-1
C10	0.10	Isiri 13126-1
C12	0.02	Isiri 13126-1
C14:0	0.08	Isiri 13126-1
C15:0	0.03	Isiri 13126-1
C16:0	6.23	Isiri 13126-1
C16:1	0.23	Isiri 13126-1
C17	0.05	Isiri 13126-1
C17:1	0.06	Isiri 13126-1
C18	2.95	Isiri 13126-1
C18:1 Δ 9t	0.58	Isiri 13126-1
C18:1 Δ 9c	60.7	Isiri 13126-1
C18:2n-6t	0.06	Isiri 13126-1
C18:2n-6c	20.4	Isiri 13126-1
C20	0.88	Isiri 13126-1
C20:1	1.12	Isiri 13126-1
C20:2	0.07	Isiri 13126-1
C22	0.25	Isiri 13126-1
C22:1 Δ 9	0.53	Isiri 13126-1
C23	0.02	Isiri 13126-1
C20:5n-3	0.08	Isiri 13126-1
C24:1	0.07	Isiri 13126-1
SAP Value (mg KOH/g)	195-201	—
Iodine Value (g/100g)	110-116	—
Acid Value (mg KOH/g)	195-200	—
Color (Gardner)	1-1.3	—

Oleic acid

Oleic acid is one of the most important unsaturated fatty acids found in many plant and animal oils. The Latin name "oleic acid" is derived from the Latin word "oleum" (meaning "oil"), as researchers first isolated it from olive oil in 1823. Structurally, oleic acid is an unsaturated fatty acid with a double bond between carbons. This double bond significantly influences its physical and biological properties.

Oleic acid typically appears as a pale yellow or yellowish-brown liquid, though its color may vary due to impurities or oxidation. It remains in liquid form at room temperature because the double bond in its structure prevents tight molecular packing, resulting in lower density.

This fatty acid is widely used in industries such as cosmetics, food, and pharmaceuticals due to its stability, emollient properties, and role in reducing LDL ("bad") cholesterol. Its ability to remain liquid at lower temperatures makes it a key component in products like soaps, lubricants, and dietary supplements

Oleic acid

Applications of Oleic Acid

Food Industry

- Acts as a natural emulsifier (combining water and oil) in sauces, mayonnaise, and similar products.
- Enhances freshness and extends shelf life of food items.

Pharmaceutical Industry

- Used as a safe solvent in drug formulations due to its skin compatibility.
- Improves skin absorption and promotes healing in wound care products (e.g., ointments).

Cosmetic Industry

- Key ingredient in creams, lotions, and hair conditioners for its moisturizing properties.
- Provides a lightweight, smooth texture in makeup (lipsticks, foundations) and skincare products.

Product Features

1. High-Purity Formulation: $\geq 99\%$ refined oleic acid (CAS 112-80-1), ideal for demanding applications in food, cosmetics, and pharmaceuticals.
2. Certified Quality: Compliant with FDA, ISO 9001, and Halal standards, ensuring global acceptability and safety.

Packaging

- Drums: Supplied in 180 kg steel or plastic drums.
- IBC Tanks: Available in 1000-liter Intermediate Bulk Containers (IBCs).
- Palletization: Drums are typically stacked 4 units per pallet for secure and simplified handling.