

TECHNICAL DATA SHEET

Product Name: Tomato Seed Oil

INCI Name: Solanum Lycopersicum (Tomato) Seed Oil

CAS: 90131-63-8

Chemical Classification: Fats and Oils

Functional Category: Skin conditioner, conditioner for normal, dry, and dehydrated hair
~ Emollient

Extraction Method: Cold-pressed oil (26–32°C)

Processing Type: RBD

Oil Characteristics: At room temperature, tomato seed oil has an orange-reddish color. The color can vary depending on the processing method and the type of tomato used. It has a mild, pleasant aroma with subtle fruity and nutty notes. Its density can vary depending on factors such as temperature and the specific tomato variety, but generally ranges from 0.910 to 0.920 g/cm³. It does not have a distinct boiling point because it breaks down at high temperatures before reaching one. The oil is primarily composed of various fatty acids: it contains linoleic acid (omega-6 fatty acid), oleic acid (omega-9 fatty acid), palmitic acid, and stearic acid. The saponification value of tomato seed oil indicates the amount of potassium hydroxide (KOH) needed to saponify a given amount of the oil and can vary based on its source and processing methods. The refractive index may also vary slightly depending on factors like temperature but usually ranges from 1.470 to 1.475.

Benefits:

- **Skin Hydration:** This oil is an excellent emollient, helping to retain moisture and prevent dehydration. It forms a protective barrier on the skin that helps maintain softness and elasticity.

- **Antioxidant Action:** Tomato seed oil is rich in carotenoid antioxidants such as lycopene, lutein, and zeaxanthin. These antioxidants help shield the skin from oxidative stress, harmful UV radiation, and free radicals.

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• **Skin Nourishment:** The oil is abundant in vitamins A, E, and D, as well as essential fatty acids. These nutrients support skin health, encourage cell regeneration, and help maintain a youthful appearance.

• **Anti-Inflammatory Effect:** Its anti-inflammatory properties can help soothe irritated skin. It can be beneficial for conditions such as eczema, psoriasis, and dermatitis.

• **Skin Brightening:** It contains natural components that may help even out skin tone and reduce the look of dark spots and hyperpigmentation. With regular use, it can give the complexion a brighter, more radiant appearance.

• **Anti-Aging Action:** Its high vitamin E content makes it effective in combating signs of aging. Vitamin E is a powerful antioxidant that protects the skin from free radicals and helps minimize the appearance of wrinkles and fine lines.

• **Makeup Removal:** The oil can serve as a gentle and effective makeup remover. Its oily texture dissolves makeup easily, including waterproof formulas, without irritating or drying out the skin.

• **Hair Care:** Tomato seed oil also contributes to hair health by hydrating and nourishing it, leaving hair soft, smooth, and easier to style. It can help reduce frizz, regenerate damaged hair, and promote hair growth.

Use in Cosmetic Products: It can be incorporated into various cosmetic formulations as part of the oil phase in concentrations ranging from 1% to 100%. It can also be used on its own as a massage oil. Tomato seed oil is found in skin-protective creams, lotions, bath oils, sun protection products, and baby and children's cosmetics. For external use only.

Animal Testing: Not tested on animals

GMO: Non-GMO

Vegan: Contains no ingredients of animal origin

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