

TECHNICAL DATA SHEET

Grape Seed Oil

Product Name: Grape Seed Oil

INCI Name: Vitis Vinifera Seed Oil

CAS: 8024-22-4

Botanical Name: Vitis vinifera

Synonyms: Common Grape Vine, Wine Grape, European Grape

Extraction Method: Mechanical pressing (expeller-pressed)

Processing Type: RBD (Refined, Bleached, and Deodorized)

Raw Material Origin: Italy

Processing: Refined oil with high stability and low acid and peroxide values. All unpleasant odors (aldehydes and ketones) have been removed. Free fatty acids that may contribute bitterness and corrosiveness have also been removed. Natural waxes responsible for oil cloudiness have been eliminated. Natural antioxidants have been added to extend the shelf life of the oil.

Description of Vegetable Oil: Grape seed oil (Vitis Vinifera Seed Oil) is a lightweight vegetable oil widely used in cosmetic formulations for skin and hair care. It is obtained from grape seeds by mechanical pressing, while the refined RBD version provides a more neutral odor, lighter color, and improved formulation stability. Due to its lightweight texture, the oil absorbs quickly and does not leave a pronounced greasy residue on the skin.

The oil is rich in linoleic acid, which helps maintain the skin's protective barrier and reduces the feeling of dryness. It contains natural antioxidants, including tocopherols and polyphenols, which help protect the skin from oxidative stress and environmental aggressors. Grape seed oil leaves the skin feeling softer and smoother without the heaviness associated with richer vegetable oils.

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It is frequently used in formulations intended for oily and combination skin because of its lightweight, non-greasy profile and non-comedogenic properties. The oil is suitable for moisturizing serums, lightweight creams, lotions, oil serums, and products intended for sensitive areas such as the eye contour region. It combines well with other vegetable oils, esters, silicones, and active ingredients.

In hair care formulations, grape seed oil contributes softness and shine without weighing the hair down. It helps reduce dryness and rough texture at the hair ends while improving formulation spreadability during application. Due to its excellent compatibility, it is commonly used in hair serums, masks, and leave-in products.

RBD processing improves oil stability and reduces the intensity of its natural odor and color, facilitating its use in professional cosmetic formulations. The oil demonstrates good compatibility with emulsions and anhydrous systems and may also be used in formulations without heating.

It appears as a pale yellow to greenish liquid with a mild odor. The oil is soluble in alcohol and insoluble in water.

Benefits:

- Lightweight texture enables rapid absorption without leaving a greasy feeling on the skin.
- Helps maintain skin hydration and reduces the sensation of dryness.
- Rich in antioxidants that contribute to protection against environmental stressors.
- Suitable for oily and combination skin because it does not clog pores.
- Provides softness and shine to the hair without weighing it down or causing stickiness.

Directions for Use: Grape seed oil is used in a wide range of cosmetic formulations due to its lightweight texture and excellent compatibility with other cosmetic ingredients. It may be added directly to the oil phase of emulsions or used as a base oil in anhydrous formulations. The oil is suitable for cold-process formulations but may also be used in processes involving mild heating.

In facial creams and lotions, it is most commonly used at concentrations of 2–15%, where it contributes to a lightweight sensory profile, hydration, and improved

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spreadability. In formulations intended for oily and combination skin, it is often used at lower concentrations, approximately 2–8%.

In oil-based serums and facial oil formulations, it may be used at concentrations of 10–100%, either alone or in combination with other vegetable oils and esters. It is frequently used as a lightweight carrier oil for liposoluble active ingredients.

In body care products such as lotions and body oils, it is typically used at concentrations of 5–20%, where it contributes softness while reducing the greasy feel of formulations.

In hair care preparations, it is used at concentrations of 1–10% in masks, conditioners, and hair serums. It helps soften the hair fiber and improve shine without adding weight.

In soaps and oil baths, it may be used at concentrations of 3–15%, contributing to a more pleasant after-feel on the skin following use.

For external use only.

Animal Testing: Substance not tested on animals

GMO: GMO-free

Vegan: Does not contain ingredients of animal origin