

TECHNICAL DATA SHEET

Product Name: Carrot Root Infused Oil

INCI Name: Daucus Carota (Carrot) Root Extract, Helianthus Annuus Seed Oil, Prunus Amygdalus Dulcis Oil, Tocopherol

CAS Numbers: 84929-61-3, 8001-21-6, 8007-69-0, 59-02-9

Chemical Classification: Mixture

Functional Category: Skin Conditioning Agent ~ Occlusive, Skin Conditioning Agent ~ Emollient, Antioxidant

Description: Carrot root infused oil is obtained by macerating dried carrot root in a suitable carrier oil using the "Stove-Top" method. During the maceration process, bioactive compounds from the plant material gradually transfer into the oil, enhancing the therapeutic properties of both the oil and the plant. The carrier oils used are cold-pressed linoleic-type sunflower oil, rich in essential linoleic acid with a lower content of oleic acid, and sweet almond oil. The resulting oil is yellow-orange in color and odorless. It is preserved with Vitamin E, which enhances its stability, prevents oxidation, and extends its shelf life. Vitamin E acts as a natural antioxidant, providing additional protection against free radical damage. Carrot-infused oil contains various bioactive compounds naturally present in carrots, such as beta-carotene, vitamins, antioxidants, and minerals. These components are known for their nourishing, moisturizing, and skin-repairing properties. This oil is widely used in skincare as a standalone product and as an ingredient in cosmetic creams, lotions, serums, and massage oils. It contributes to improved skin complexion and supports skin cell regeneration.

Benefits:

- Deeply hydrates the skin and prevents dryness.
- Antioxidants protect the skin from free radicals and slow down aging.
- Beta-carotene enhances skin tone and imparts a healthy glow.
- Nourishes the hair and strengthens the roots, reducing brittleness.
- Restores dry and damaged hair, improves texture, and reduces frizz.

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Usage in Cosmetic Products: Carrot-infused oil is incorporated into various cosmetic formulations due to its nourishing and regenerative properties. In face and body creams or lotions, it is recommended at concentrations between 2% and 10%, depending on the desired effect and skin type. Higher concentrations provide deep hydration and support skin regeneration, making them ideal for dry and mature skin. For sensitive skin, lower concentrations are advised to minimize the risk of irritation. In hair care formulations, such as masks and hair oils, it can be used at concentrations between 5% and 15% to strengthen the hair, repair damage, and enhance shine and texture. Smaller amounts in shampoos and conditioners help with hydration and frizz control. In facial serums and oil blends, recommended concentrations range from 1% to 5%, ensuring mild yet effective skin protection and radiance. In body care products, including balms and body butters, it can be combined with other oils to achieve a richer formulation and improved application. Proper concentration balancing is advised to maximize efficacy and product safety. The unique composition of this oil allows its application in almost all skincare and haircare products, such as face creams, body lotions, makeup removers, lip care products, and hair serums.

Recommended concentrations: Up to 5% in skincare products such as creams and lotions. Up to 0.5% in hair care formulations. These ingredients should not be applied to damaged or irritated skin and should not be used in excessive concentrations to prevent irritation or hypersensitivity.

Animal Testing: Not tested on animals.

GMO: Non-GMO.

Vegan: Does not contain animal-derived components.