

TECHNICAL DATA SHEET

Product Name: Carrot Oil with Beta-Carotene

INCI Name: Sunflower Oil (and) Daucus Carota Sativa (Carrot) Root Extract (and) Beta-Carotene (and) Tocopherol

CAS: 8001-21-6, 84929-61-3, 7235-40-7, 1406-18-4

Chemical Classification: Mixture

Functional Category: Skin Conditioning Agent

Description: Carrot oil enriched with beta-carotene and Vitamin E forms a powerful blend of ingredients used for skin care. These ingredients work together to improve skin health by providing antioxidant protection, enhancing hydration and elasticity, and contributing to an even skin tone. Tocopherol, in addition to its skin conditioning benefits, helps preserve the formulation itself by preventing oxidation. The mixture is dark brown in color, has a specific scent, and is not soluble in water. Refractive index is 1.473–1.477, density at 20°C is 0.918 – 0.922 g/ml, Acid value < 5, and Beta-Carotene content is between 0.18 – 0.21%.

Benefits:

- **Sunflower Oil:** Derived from sunflower seeds (*Helianthus annuus*) and is rich in linoleic acid (omega-6 fatty acid) and vitamin E. Known for its softening properties and smoothing effect on the skin. Acts as a non-comedogenic carrier oil, meaning it can help transport other ingredients deeper into the skin without clogging pores.
- **Carrot Root Extract (*Daucus Carota Sativa*):** Extracted from carrot roots. Rich in antioxidants, including beta-carotene, vitamins C and E, and other beneficial compounds. Known for its skin conditioning properties. Helps nourish and rejuvenate the skin. It can also help protect the skin from oxidative stress and external aggressors.
- **Beta-Carotene:** Often used in cosmetics for its antioxidant properties and ability to protect the skin from harmful UV radiation. As a precursor to vitamin A, beta-carotene aids in the renewal and growth of skin cells, which can contribute to reduced visibility of wrinkles and improvement in overall skin appearance. Also used to achieve a natural skin color. Can help protect the skin from damage caused by sun exposure.

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• **Tocopherol:** This is a form of vitamin E, a powerful fat-soluble antioxidant that helps protect the skin from oxidative damage caused by free radicals. Tocopherol strengthens the skin's barrier function, improves skin moisture, and has anti-inflammatory properties. Often added to skin care products to extend their shelf life by preventing the oxidation of oils in the product.

Usage Instructions: Add to the oil phase of emulsions. Typical usage level is 0.5 - 5%. For external use only.

Use in Cosmetic Products: The specific composition of this oil has made it applicable in almost all cosmetic products for skin and hair care, such as face creams, body milks, makeup removers, hair care balms and serums, lip care products. It is used in various sun care products, as well as in self-tanning products.

Animal Testing: The substance has not been tested on animals.

GMO: Non-GMO.

Vegan: Does not contain components of animal origin.