

Ascorbyl Tetraisopalmitate

Description

Vitamin C (ascorbic acid) is a normal constituent of human skin and is concentrated in the dermis and epidermis. It is one of the most widely used antioxidants for protecting the skin. Vitamin C can inhibit the activity of tyrosinase and therefore decreases the melanin production. In addition, Vitamin C is important to help protect the skin against UV-induced free radical damage that is related to skin aging. Unfortunately, pure Vitamin C is not stable in cosmetic formulations and easily oxidized when exposed to air or light. To avoid this oxidation process and to provide the maximum benefit of Vitamin C, it is recommended to use a stable form of Vitamin C in personal care preparations.

Ascorbyl Tetraisopalmitate is an easy to formulate oil soluble derivative of the Vitamin C. It is stable against heat and light and is lipid-soluble, easy to use for cosmetics. It exhibits excellent percutaneous absorption and effectively converts into free Vitamin C in the skin to perform various physiological functions. It resists discoloration and degradation, while retaining all biological activity of L-Ascorbic Acid

Efficacy

- decreases the generation of melanin by inhibition of tyrosinase activity
- acts as an antioxidant
- decreases wrinkle progression
- improves skin lightening
- improves radiance and an even skin tone
- increases collagen production
- protects the skin from environmental damages

Appearance

colourless to pale yellow liquid

INCI

Ascorbyl Tetraisopalmitate

Registration

CAS-No	183476-82-6
EC-No	430-110-8

Preservatives / Stabilizers

none



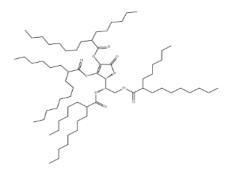
Nature needs no cosmetics, but cosmetics need nature



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Characteristics

assay (HPLC)>= 95 %
specific gravity (density meter)0.92 - 0.96
refractive index (refractometer)1.440 - 1.480



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molecular weight	1129.76 g/mol
molecularformula	C ₇₀ H ₁₂₈ O ₁₀
synonyme:	

1S)-1-[(2R)-3,4-bis[(2-hexyldecanoyl)oxy]-5-oxo-2,5-dihydrofuran-2-yl]-2-[(2-hexyldecanoyl)oxy]ethyl2-hexyldecanoate

Application

daily cosmetic products creams and lotions face masks ampoules body care oil treatments

Application concentration

skin care formulations.....0.1 - 5 %

Incorporation

Ascorbyl Tetraisopalmitate is oil soluble. The pH-value should not be more than 6. It is recommended to add product into formulation right before the adjustment.

Toxicology

Hazardous to the aquatic environment. Pure raw material can cause skin irritation and/or serious eye irritation.

Storage & Shelf life

Ascorbyl Tetraisopalmitate should be stored in original sealed containers in a dry, well-ventilated and light protected place at temperatures between 10 – 25°C. Keep away from open flames, hot surfaces and sources of ignition.

In closed original containers the shelf life is 24 months.

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