

SMART™

VCL

Brightening and Lightening Vitamin C Ingredient



BENEFITS

SMA'RT VCL is an oil soluble vitamin C that has an extreme stability profile. It is used as a whitening agent to brighten and even skin tones. SMA'RT VCL helps to reduce age spots. Due to its known ability to penetrate into skin for increased bioavailability, it aids in collagen development-reducing the appearance of fine lines and wrinkles. It is known to act as an antioxidant. It is heat and oxygen stable.

INCI Nomenclature: Ascorbyl Tetraisopalmitate

Suggested use level: 0.1-2%

KEY ATTRIBUTES

- Skin Lightening/Brightening
- Anti-inflammatory
- Antioxidant
- Reduce wrinkles-promote collagen synthesis
- Reduce and fade age spots
- Even skin tones

APPLICATIONS

- Anti-aging products
- Soothing skincare products
- All creams and lotions
- Color cosmetics
- Oils and other anhydrous products

FORMULATION GUIDE

- Hydrolysis - Use at pH 6 below ("natural skin pH")
- Discoloration - Avoid using metal ions
- Oxidation - Add chelating agents (e.g. EDTA) & Tocopherol for formulation stability
- Use of UV filters - Inorganic absorbers is recommended
- Emulsifying - Avoid prolonged heating (just like any other vitamin)



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