

Ursolic Acid Na-Salt natural

Description

Ursolic Acid Na-Salt natural is a mixture of ursolic acid sodium salt and oleanolic acid sodium salt which occurs in many plants. These pentacyclic triterpenoid acids are manufactured by extraction of *Eriobotrya japonica* and *Olea Europaea* leaves. It can also be found as a major component in the balm of rosemary leaves. Ursolic acid and oleanolic acid have an isomer structure and belong to one of the strongest triterpenoids. They are excellent active ingredients to use in high quality anti-aging and anti-photo-aging products.

The anti-photo-aging effect of ursolic acid and oleanolic acid is well documented and stands out from all the other effects of the acids. The application of a cream containing 0.2 % ursolic acid or oleanolic acid on the skin of 20 test persons could regenerate dermal collagen fiber bundles structures and by this also skin elasticity. These repair effects also caused a significant reduction of the number and depths of wrinkles. Compared to retinoic acid the two triterpenoid acids demonstrated a marked superiority. Retinoic acid did not show any repair effects to the skin collagen structure and therefore also not to skin elasticity. Contrary to ursolic acid and oleanolic acid retinoic acid causes also an unnatural look of the treated skin.

Efficacy

- reduces wrinkles and fine lines
- regenerates dermal collagen fibers bundle structure
- reduces photo-aging
- enhances skin elasticity
- acts as an antioxidant
- reduces inflammations
- stabilizes the liposome membrane
- shows anti-tumor activity
- acts antimicrobial

Appearance

white powder

INCI

Sodium Ursolate, Sodium Oleanolate

Registration

CAS-No:

Ursolic Acid Sodium Salt.....220435-39-2

Oleanolic Acid Sodium Salt.....126309-42-0

EC-No.:

Ursolic Acid.....201-034-0



Ursolic Acid Na-Salt natural

Preservatives / Stabilizers

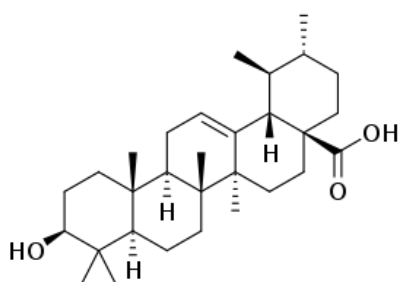
none

Application concentration

skin care formulations.....0.1 - 0.3 %

Characteristics

content Ursolic Acid Na-Salt.....65 - 80 %
content Oleanolic Acid Sodium Salt.....20 - 30 %
total active ingredients.....>= 85 %



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molecular formula.....C₃₀H₄₈O₃
molecular weight.....456.70 g/mol⁻¹
synonym.....urson, prunol, malol

Incorporation

Ursolic Acid Na-Salt natural is nearly insoluble in water. It is soluble in ethanol, phenethyl alcohol, pentylene glycol and propylene glycol up to 1 %. Heating up to 70 - 75 °C is no problem.

1 % Ursolic Acid Na-Salt natural can be solved in a mixture of 10 % ethanol, 5 % glycerin, 5 % water and 79 % phenethyl alcohol. Prior dispersion in oil is possible.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Ursolic Acid Na-Salt natural should be stored in closed containers in a dry, cool and light protected place at 10 - 25°C.

In closed original containers the shelf life is 24 months.

Application

daily cosmetic products
creams and lotions
gels and ampoules
body care
dermatological care