

Stearyl Glycyrrhetinate

Description

Stearyl Glycyrrhetinate is the stearyl ester of 18- β -glycyrrhetinic acid. 18- β -glycyrrhetinic acid is obtained by hydrolysis of glycyrrhizinate extracted from the roots of licorice (*Glycyrrhiza glabra*). Since thousands of years licorice root is an established cure. Also, the food industry produces licorice out of these roots. The cosmetic industry is using different licorice derivatives because of their skin soothing efficacy. The multifunctionality of this active ingredient makes it so interesting for a number of cosmetic formulations, particularly for after sun- and after shave products. Licorice root contains many different ingredients. The main component with up to 15 % is glycyrrhizinic acid and their potassium, ammonium and calcium salts. Stearyl Glycyrrhetinate is the lipophilic representative from licorice derivatives. Due to this lipophilic character Stearyl Glycyrrhetinate has a particular affinity to skin lipids and therefore an improved efficacy as anti-irritant.

Pentacyclic triterpenoic acids like glycyrrhetinic acid and their derivatives have an excellent anti-inflammatory efficacy. The use in after sun preparations is especially recommended as the increased amount of messenger molecules (like histamine, prostaglandin, interleukin and serotonin) cause an aneurysm of blood vessels and induce erythema and swelling of the skin with burning and itching sensation. This is one reason why especially in after sun preparations anti-irritant active ingredients should be incorporated. Also, in other applications like shaving or depilation, where an irritation of the skin can occur, we recommend the use of glycyrrhizinic derivatives. They are highly recommendable for sensitive skin and skin that is prone to allergic reactions. Triterpenoic acids, like Stearyl Glycyrrhetinate, are also good radical scavengers and therefore ideal for anti-aging cosmetics.

Efficacy

- reduces inflammations
- reduces erythema and supports wound healing
- acts soothing and refreshing
- acts as an anti-irritant
- reduces itching and allergic reactions
- shows antiphlogistic effects

Appearance

white to yellow powder or crystalline powder

INCI

Stearyl Glycyrrhetinate

Registration

CAS-No.....13832-70-7
EC-No.....419-580-5
JCIC-No.....500133-41

Raw material approved by ECOCERT GREENLIFE,
conform to the COSMOS Standard.



Nature needs no cosmetics,
but cosmetics need nature

Stearyl Glycyrrhetinate

Preservatives / Stabilizers

none

Application concentration

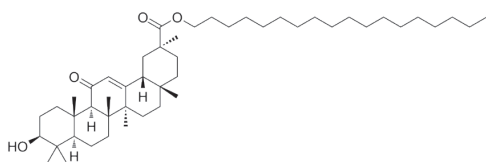
skin care formulations.....0.01 - 0.5 %

Characteristics

purity (assay).....>= 95 %

loss on drying.....<= 1 %

residue on ignition.....<= 0.1 %



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molecular formula.....C₄₈H₈₂O₄

molecular weight.....723.17 g/mol⁻¹

synonym.....Octadecyl 3-Hydroxy-11-oxo-olean-12-en-29-oate

Incorporation

Stearyl Glycyrrhetinate can easily be incorporated in the oil phase of the formulation.

Incorporation up to 80 °C is possible.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Stearyl Glycyrrhetinate should be stored in sealed containers at a dry place, protected from light with good ventilation at 10 - 25 °C.

In closed original containers the shelf life is 60 months.

Application

creams and lotions

face masks

oil ampoules

dermatological treatments

sensitive care