

Dipotassium Glycyrrhizinate

Description

Since decades the natural extracts of liquorice root are used as additives or active ingredients in food, cosmetics and pharmaceutical products, due to their highly interesting efficacies.

Monoammonium glycyrrhizinate obtained is the main component of liquorice root. By addition of Potassium hydroxide solution the Potassium salt is formed after complete removal of water.



Appearance

white or almost white powder with sweet smell

INCI

Dipotassium Glycyrrhizate

Registration

CAS-No.....68797-35-3

EINECS No.....272-296-1

JCIC No.....500129-41

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

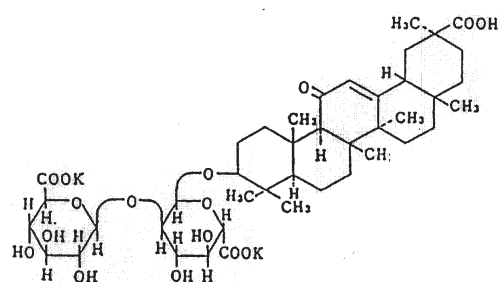
Effects

anti-inflammatory
sebum regulating
surface active



COSMOS
APPROVED

Chemical Structure



Molecular Formula: $C_{42}H_{60}K_2O_{16}$

Characteristics

content of Dipotassium Glycyrrhizinate.....>= 98 %

Preservatives / Stabilizers

none

Application

highly suitable as anti-irritant in hair and skin care products and for oral hygiene products

self emulsifying properties and is able to stabilize an emulsion

sebum regulating properties inhibits excessive release of skin lipids through sebaceous glands

in oral hygiene products the sweet liquorice like taste is highly welcomed beside the anti-irritant efficacy

Dipotassium Glycyrrhizinate

Application concentration

Dermatological preparations.....	1.0 - 2.0 %
Daily skin care.....	0.2 - 1.0 %
After sun cosmetics.....	1.0 %
After shave products.....	0.5 %
Cosmetic for oily skin.....	0.5 - 1.0 %
Oral care products.....	0.2 - 0.5 %
Shampoo for fatty hair.....	0.5 - 1.0 %
Conditioner (leave on) for fatty hair.....	0.25 - 0.5 %

Formulation advice

good water solubility, temperature stability
easy to formulate
surface active (self-emulsifying), therefore less emul-
sifier might be needed
in aqueous solution and in presence of mineral acids
it forms a gel below pH 4



Solubility

water.....	readily soluble
water/ethanol.....	readily soluble
propylene glycol.....	nearly insoluble
plant oils.....	nearly insoluble

Toxicology

slightly irritating to the eyes
non toxic
non irritating to the skin
non sensitization

Storage & Shelf life

Dipotassium glycyrrhizinate should be stored in dark
and dry place at 10°C to 25°C. Shelf life in a sealed
container is 4 years.

Attention:
Dipotassium glycyrrhizinate is hygroscopic!

Other products from liquorice

18-β-Glycyrrhetic Acid.....	Mat.Code 7212
Ammonium Glycyrrhizinate.....	Mat. Code 7211
Stearyl Glycyrrhizinate.....	Mat. Code 7227

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