

Bakuchiol CO₂

Description

Bakuchiol is an antioxidant and anti-inflammatory natural active ingredient derived from Bakuchiol seeds that targets wrinkles and aging skin. Bakuchiol is a meroterpene, that is obtained from the babchi plant (*Psoralea corylifolia*), which is predominant in Eastern Asia. *Psoralea corylifolia*, commonly known as babchi, is a popular herb used in traditional Ayurvedic and Chinese medicine for its magical effects to cure various skin diseases. Chinese and Indian medical experts have used Bakuchiol for years to alleviate several skin conditions and to treat wounds. The plant is also pharmacologically studied for its chemoprotective, antioxidant, antimicrobial, and anti-inflammatory properties.

Bakuchiol is a true alternative to retinol as it shows no negative side effects. Bakuchiol can be used during the day and is better tolerated by the skin. More so, pregnant women can use products with bakuchiol due to the absence of retinoids. It provides the skin with every nutrient as also retinol would provide. It stimulates key anti-aging genes similarly as retinol, for instance retinoid binding and metabolizing genes. It is also an antioxidant, a stimulator of collagens and an inhibitor of lipo-peroxidation. Bakuchiol is excellent for those with sensitive skin who want a smooth and youthful appearance. The result of using Bakuchiol is a significant improvement in skin elasticity, firmness, pigmentation, and hydration. All these effects go along, without showing dryness or skin flakiness. Bakuchiol was also found to have a significant effect on collagen and elastin, two of the skin's most precious proteins. It has proven to suppress melanin and increase skin firmness by regulating types I, II and IV collagen all to reduce fine lines and wrinkles. It is the perfect ingredient for protective as well as restorative anti-aging formulations.

Efficacy

- reduces inflammations
- acts antibacterial
- enhances an even skin tone
- reduces hyperpigmentation
- acts as antioxidants
- reduces wrinkles
- reduces acne
- mechanisms for restorative and preventative anti-aging

Appearance

light yellow to light brown clear oil

INCI

Bakuchiol

Registration

CAS-No.....10309-37-2

EC-No.....685-515-4

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



Nature needs no cosmetics,
but cosmetics need nature

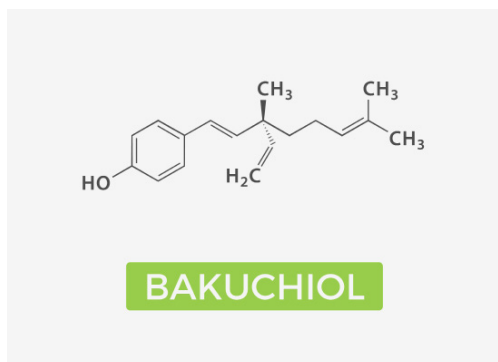
Bakuchiol CO₂

Preservatives / Stabilizers

none

Characteristics

purity (HPLC).....>= 98 %



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molecular formula.....C₁₈H₂₄O

molecular weight.....256.38 g/mol

synonyme:

4-[(1E,3S)-3-ethenyl-3,7-dimethyl-1,6-octadien-1-yl]-phenol

Application

high quality cosmetic products
dermatological treatments
creams and lotions
face masks
ampoules

Application concentration

skin care formulations.....0.3 - 1 %

Incorporation

Bakuchiol CO₂ should be incorporated in the oil phase below 60 °C. Heating up to 70 - 80 °C is possible for a short time.

Bakuchiol CO₂ is oil soluble. It is soluble in DMSO, methanol, ethanol, acetone, ethyl acetate, petroleum ether and chloroform. It is insoluble in water. Up to 1 % Bakuchiol CO₂ is soluble in glycerin and organic solvents as propylene glycol, pentylene glycol, sunflower oil, avocado oil, jojoba oil, apricot kernel oil, almond oil, propylheptyl caprylate, dicaprylyl ether, isoamyl laurate, squalane, caprylic / capric triglycerides, caprylyl glycol / ethylhexylglycerin, octyldodecanol.

The usage of iron or copper ions, as well as chelating agents should be avoided. A pH of 3.0 - 6.5 is recommended.

Toxicology

non hazardous in normal use concentration
pure raw material is very toxic to aquatic life with long lasting effects

Storage & Shelf life

Bakuchiol CO₂ should be stored in original sealed containers at a cool, dry and light protected place at 2 - 8 °C. Brief exposure up to 35 °C for max. 2 weeks possible.

In closed original containers the shelf life is three years.