

Troloxerutin

Description

Troloxerutin is a rutoside, which is a naturally occurring flavonoid, extracted from natural japonica buds. Rutin, a glucoside composed of quercetin and rutinose (a disaccharide of glucose and rhamnose), is extracted and in a half synthetic process it is transformed to Troloxerutin. Rutin is applied in the traditional medicine since centuries. It is widespread in many plants and often together with vitamin C.

Troloxerutin can inhibit platelet aggregation, prevents thrombosis and cures vascular injury induced by 5 serotonin or bradykinin. It increases capillary resistance and reduces capillary permeability. Therefore, troloxerutin is known to prevent edema caused by increased vascular permeability. Troloxerutin has comparatively effective antioxidant properties. It offers effective protection against harmful environmental stressors, protecting the skin integrity from irreparable damages. In addition to anti-erythrocytic, anti-thrombic, and fibrinolytic efficacy, troloxerutin shows as well oedema-protective rheological activity. Troloxerutin is widely used in cosmetics, pharmaceutical, functional food, water-soluble beverages and health supplements.

Efficacy

- acts as an antioxiddant
- stabilizes cosmetic formulations
- acts antiphlogistic
- prevents oxidation decomposition of collagen
- protects the skin from environmental damages
- decreases capillary permeability
- increases microcirculation

Appearance

yellowish green crystalline powder

INCI

Troloxerutin

Registration

CAS-No.....7085-55-4

EC-No.....230-389-4

Preservatives / Stabilizers

none

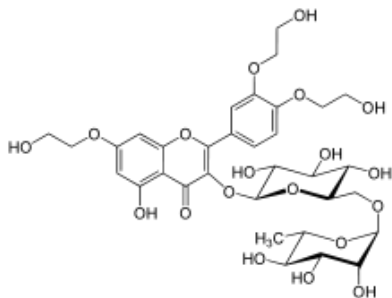


Nature needs no cosmetics,
but cosmetics need nature

Troloxerutin

Characteristics

purity (assay).....95.0 - 105.0 %
loss on drying.....<= 5.0 %



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molecular formula.....C₃₃H₄₂O₁₉
molecular weight.....742.68 g/mol⁻¹

synonym:

hydroxyethylrutin (HER), pherarutin, trihydroxyethylrutin, 3',4',7-tris[O-(2-hydroxyethyl)]
rutin

Application

daily cosmetic products
creams and lotions
face masks
gels and ampoules
body care
after shave
after sun
baby care

Application concentration

skin care formulations.....0.1 - 2 %

Incorporation

Troloxerutin can easily be incorporated in cosmetic formulations and other formulations into the water phase. The recommended pH is 3 - 10. Presence of free iron ions may cause brown decolorization. This can be avoided by addition of 0.1 % EDTA. Titanium dioxide may lead to a shift or intensification of color.

Troloxerutin is soluble in water, pentylene and propylene glycol and is slightly soluble in ethanol.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Troloxerutin should be stored in closed containers in a dry and light protected place with good ventilation at 10 - 25°C.

In closed original containers the shelf life is 24 months.