Kojic Acid Dipalmitate

INCI Name: **Kojic Dipalmitate**

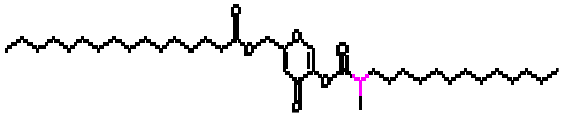
Chemical Name: **2-Palmitoyloxymethyl-5-palmitoyloxy-pyrone**

CAS No.: **79725-98-7**

Molecular Formula: **$C_{38}H_{66}O_6$**

Molecular Weight: **618.94**

Structural Formula:



Solubility: kojic acid dipalmitate solves in oil phase,it is compatible together with all kind of preservatives and sunscreen.

Appearance and Character: Kojic acid dipalmitate is a new skin whitening agent, it can prevent the formation of melanin by inhibiting the activity of tyrase, effective ratio can be up to 80%, so it have a evidently whitening effect, is white crystalline.

Property	***Specification***
Appearance	White sheet crystals
Assay	Min. 98%
Melting point:	92℃-96℃
Loss on drying:	Max. 0.5%
Residue on Ignition:	Max. 0.5%
Heavy Metals:	Max. 10ppm
Arsenic:	Max. 2ppm
Color Reaction of Ferric Chloride:	Negative
Microbiological Test:	
Bacteria:	Max. 300CFU/g
Fungi:	Max. 100CFU/g

Applications:

Kojic Acid Dipalmitate is modified kojic acid derivative, which not only overcomes the instability to light, heat and metallic ion, but also keeps activity of the inhibitory tyrosine and prevents the forming of melanin.

Kojic Acid Dipalmitate has an excellent property of inhibiting the activity of tyrosinase present in the human skin so as to inhibit the melanin formation. It is more efficacious than straight kojic acid. Kojic Acid Dipalmitate can produce excellent effects in even toning the skin, fighting age spots, pregnancy marks, freckles as well as general skin pigmentation disorders of face and body. Unlike kojic acid, which often causes product stability problems such as color changes, Kojic Acid Dipalmitate offers excellent

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product stability without any color instability problems. Solubility soluble in ware alcohol, mineral oil and esters.

Stability and Storage:

1. Skin Lightening. Kojic Acid Dipalmitate offers more efficacious skin lightening effects. Compared with kojic acid, Kojic Acid Dipalmitate markedly enhances the inhibitory effects on tyrosinase activity, which prohibits the formation of melanin.
2. Light and Heat Stability. Kojic Acid Dipalmitate is light and heat stable, while kojic acid tends to oxidize over time.
3. PH Stability: Kojic Acid Dipalmitate is stable within a wide pH range of 4-9, which provides flexibility to formulators.
4. Color Stability. Unlike kojic acid, Kojic Acid Dipalmitate does not turn brown or yellow over time for two reasons. First, kojic acid is not stable to light and heat, and tends to oxidize, which results in color change (often yellow or brown). Second, kojic acid tends to chelate with metal ions (e. G. Iron), which often results in color change. On the contrary, Kojic Acid Dipalmitate is stable to pH, light, heat and oxidation, and does not complex with metal ions, which lead to color stability.

If is stored out of sunlight in the tightly sealed, original containers, it has a shelf life of 24 months.

Package: 25kg drum.

Shelf life: 24months

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