



Specialized in chemicals

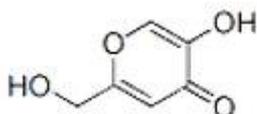
Technical Data Sheet

Kojic acid

Product Information

Chemical Name Kojic acid

Chemical Structure



CAS # 501-30-4

Formula C₆H₆O₄

Molecular Weight 142.11

Synonyms 5-Hydroxy-2-hydroxymethyl-4-pyrone;

Description

White or off white crystal.Kojic acid is a tyrosinase inhibitor that acts as a chelation agent which inhibits melanin production which in vitro should help melasma. It can be used on chemicals to prevent oxidative browning of samples

Physical Properties

Melting Point: 152-155°C (lit.)

Boiling Point: 401.67°C at 760 mmHg (Predicted)

Density: 1.54 g/cm³ (Predicted)

Refractive Index: n_{20D} 1.61 (Predicted)

Specification

Appearance	White or off white crystal
Purity,%	≥99.0
Melting point,°C	152-156
Loss on drying,%	≤1
Ignition residue,%	≤0.1
Chloride,mg/KG	≤100
Heavy metal,%	≤0.001
Arsenic,%	≤0.0001
Ferrum,%	≤0.001
Microbiological test	Bacteria:≤3000cfu/g Eumycete:≤50cfu/g Coli-Index,Negative

Applications

- Kojic acid is a kind of specialized inhibitor for melanin. It can prevent the tyrosinase activity through synthesizing with copper ion in the cells after it enters skin cells.
- Kojic acid and its derivative has better inhibitory effect on tyrosinase than any other skin whitening agents. At present it is assigned into various kinds of cosmetics for curing freckles, spots on the skin of old man, pigmentation and acne.
- Kojic acid can also eliminate free radical, strengthen cell activity of cell and keep the food fresh. It is widely used in the fields of medicine and food.

Packaging

- 1kg/aluminium bag
 - 25 kg fibre drum
- Total 9 MT per 20ft container with pallets, 12 MT without pallets.

Safety & Storage & Handling

Stored in cool and airy place; away from fire and heat; handle with care; no breakage, avoid leakage. It is valid for 2 years under proper condition.

*Please refer to MSDS for more information about Safety, Storage and Transportation.