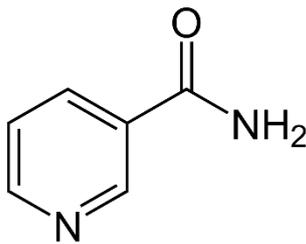


Technical Data Sheet

SinoWhite NCA(H)

Niacinamide
CAS# 98-92-0



Mol. wt. 122.12
Formula C₆H₆N₂O

Feature

- Improves skin's elasticity
- Strengthens skin's barrier
- Helps erase discolorations
- Revives skin's healthy tone and texture

Description

SinoWhite NCA, also known as Niacinamide and Nicotinamide, is amide of Nicotinic acid (Vitamin B₃). It is a water-soluble vitamin and is part of the vitamin B group.

Manufacturing Process

SinoWhite NCA(H) is manufactured by the fermentation process.

Specifications

Item	Specification
Appearance	White crystalline powder
Assay (% , dry)	99.00 ~ 101.00
Identification	
A : IR test	Meet the requirement A
B : UV test	$245/A_{262} = 0.63 \sim 0.67$
Melting point	128.0 ~ 131.0
pH (5% aq. soln.)	6.00 ~ 7.50
Loss on drying (%)	≤ 0.50
Residue ignition (%)	≤ 0.10
Related substances	Meet the requirement (BP2020)
Readily Carbonizable substances	Meet the requirement
Organic volatile impurities	Meet the requirement
Niacin content (ppm, by HPLC)	≤ 65
Heavy metal (ppm)	≤ 20
Complies with USP43 and BP2020	

Main Functions and Applications in Cosmetics

Niacinamide is widely used in cosmetics.

- Basic cream: 2% dosage, whitening and anti-wrinkle effect
- Shampoo & Conditioner: it has effect on stimulating hair follicle, improving follicle's blood circulation so as to prevent trichomadesis.
- Nicotinamide has the function on vasodilatation, it can also be used in the products for removing the dark circles around eyes.

Solubility

1g is soluble in around 2ml water, 1.5ml ethanol or around 10ml glycerin.

It is easily soluble in acetone, amyl alcohol, chloroform, propylene glycol, butanol.

It is almost insoluble in ether and benzene.

Storage

Store in sealed container under cool and dry place.

Keep off moisture. Use as soon as possible after opening.

Shelf Life 3 years