

Product Information

Product Data Sheet

Niacinamide PC

Description

Niacinamide PC is a white, crystalline, odourless powder with a low content of niacin.

Product identification

Product code: 50 0606 6

Chemical names: pyridine 3-carboxamide; pyridine 3-carboxylic acid amide

Synonyms: nicotinic acid amide; nicotinamide; vitamin PP; vitamin B3

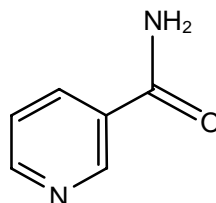
CAS No.: 98-92-0

EINECS: 202-713-4

INCI name: Niacinamide

Empirical formula: C₆H₆N₂O

Molecular mass: 122.1 g/mol



Specifications

Appearance:	Crystalline powder
Colour:	White
Assay:	99.0-101.0% w/w
Related Substances:	
3-cyanopyridine	≤ 0.10% w/w
Any unknown impurity	≤ 0.10% w/w
Total of impurities	≤ 0.2 % w/w
Nicotinic acid:	max. 200 ppm
pH of solution:	6.0-7.5
Clarity of solution:	≤ 3.00 NTU
Colour values (CIELAB) L*	90.0-101.0
Colour values (CIELAB) a*	-10.0-10.0
Colour values (CIELAB) b*	-10.0-10.0
Colour of solution BY:	min. 7
Melting range:	128.0-131.0°C

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Particle size fraction:

≥ 50 µm	min. 90.0% w/w
≥ 250 µm	max. 8.0% w/w

Sulfated ash: max. 0.10% w/w

Heavy Metals: max. 20 ppm

Chloride: max. 70 mg/kg

Sulfate: max. 190 mg/kg

Readily carbonizable substances: passes test

Identification (UV, NaOH, IR): corresponds

Loss on drying: max. 0.5% w/w

Lead: max. 2 ppm

Solubility

Niacinamide PC is freely soluble in water (691.0 g/L at 20.0 °C) and in alcohol, soluble in glycerol, and very slightly soluble in ether or chloroform.

Stability and storage

Niacinamide PC is practically stable to air, light and humidity. It is fairly stable in solutions. Strong acids or alkalis may cause hydrolysis to nicotinic acid. The product may be stored for 36 months from the date of manufacture in the unopened original container and at a temperature below 25 °C. The 'best use before' date is printed on the label.

Uses

As a cosmetic ingredient in Personal Care products and in topical applications.

This product is not intended for use in the manufacture of sterile drug products. The purchaser assumes all responsibility for additional processing, testing, labelling and registration required for such use.

Compendial compliance

Niacinamide PC meets all requirements of the USP, FCC and Ph. Eur.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene.

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Legal notice

The information given in this publication is based on our current knowledge and experience, and may be used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations, and observe all third party rights.

Additional information

To find out more about our ingredients, please contact your nearest DSM Nutritional Products office.

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