



Specialized in chemicals

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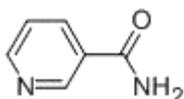
Technical Data Sheet

Niacinamide

Product Information

Chemical Name	Niacinamide
CAS #	98-92-0
Formula	C ₆ H ₆ N ₂ O
Molecular Weight	122.13
Synonyms	Niacinamide; Vitamin PP; VB ₃ ; Vitamin B ₃ ; Nicotinic acid amide

Structural formula:



Physical Properties

White to off white powder; Melting point 128-131°C; Boiling point 150-160°C; Flashing point 182°C; Water-soluble 1000 g/L (20°C).

Specification

Items	Specification	Results
Characteristics	White crystalline powder	Pass
Assay	99.0~101.0%	99.7%
Heavy metals	≤ 0.001	< 0.001
Related substances	Complies with the standard	pass
Sulphated ash	≤ 0.02	< 0.02

Melting point	234~240° C	236.2~237.3° C
Loss on drying	< 1.0	0.40
Chloride	≤ 0.02	0.07

Applications

Niacinamide USP DC is used as food additive, for multivitamin preparations and as intermediate for pharmaceuticals.

Nicotinamide, (ni-k-t-n-md) also known as niacinamide and nicotinic amide, is the amide of nicotinic acid (vitamin B3 / niacin). Nicotinamide is a water-soluble vitamin and is part of the vitamin B group. Nicotinic acid, also known as niacin, is converted to nicotinamide in vivo, and, though the two are identical in their vitamin functions, nicotinamide does not have the same pharmacological and toxic effects of niacin, which occur incidental to niacin's conversion. Thus nicotinamide does not reduce cholesterol or cause flushing, although nicotinamide may be toxic to the liver at doses exceeding 3 g/day for adults. In cells, niacin is incorporated into nicotinamide adenine dinucleotide (NAD) and nicotinamide adenine dinucleotide phosphate (NADP), although the pathways for nicotinic acid amide and nicotinic acid are very similar. NAD+ and NADP+ are coenzymes in a wide variety of enzymatic oxidation-reduction reactions. It's produced by the aqueous aminolysis of 3-cyanopyridine (nicotinonitrile) and subsequent crystallization.

Packaging

25KG/box 25KG/ paper barrel

Storage & Handling

Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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