



Specialized in chemicals

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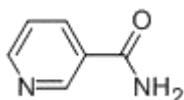
Technical Data Sheet

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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