



Dietary Supplement



Cosmetics



Pet Food



Infant formula



Personal Care



Pharmaceuticals

# Niacinamide

A POWERHOUSE NUTRIENT

## PRODUCT IN FOCUS



## Niacinamide

### INTRODUCTION

Niacinamide is a naturally occurring nutrient belonging to the pyridine carboxylic acid family. It is an important form of vitamin B3, an essential nutrient that supports many cellular processes and plays an important role in energy metabolism. Animal and refined grain-based products are fortified with Niacinamide.

It is a water-soluble vitamin that promotes release of energy from foods and enhances proper nervous system functioning. Along with systemic benefits, it also offers a wide range of topical benefits. Also, it is the preferred form of Vitamin B3 for treating Pellagra.

<b>Synonym</b>	Nicotinic acid amide, Pyridine-3-carboxylic acid amide, Vitamin B3, Vitamin PP, 3- Pyridinecarboxamide, Beta Pyridinecarboxamide
<b>CAS no.</b>	98-92-0
<b>EINECS no.</b>	202-713-4
<b>Chemical Formula</b>	C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O

### SPECIFICATIONS | Niacinamide Ph.Eur

Test	Unit	Specification
Appearance	-	White or almost white crystalline powder or colorless crystals
pH	-	6.0 - 7.5
Assay on dried substance (Chemical - Titrimetic)	% w/w	99.0 - 101.0
Loss on Drying	% w/w	Max 0.5
Unspecified impurity	%	Max 0.10
Total Impurities	%	Max 0.2
Sulfated Ash	%w/w	Max 0.1

Niacinamide is also available in BP/USP grades



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### APPLICATIONS

Common applications for niacinamide are in food, feed and beverages, health and personal care and the pharmaceutical industry. Niacinamide has several other health benefits and uses as follows:

### HELPFUL FOR SKIN CARE & IN PREVENTING SKIN CANCER

Niacinamide plays an important role in keeping the skin healthy. For this reason, it's a popular additive in the cosmetic and skincare industry.

When applied topically or taken orally as a supplement, niacinamide has been shown to have anti-inflammatory effects on the skin. It has been used to treat skin conditions like acne and rosacea, a facial skin disorder characterized by redness.

It is also a promising supplement which may help in preventing Melanoma which is a serious type of skin cancer that develops in the cells that produce

melanin, the pigment that gives your skin its color. Owing to its role in keeping your cells healthy, oral supplements of niacinamide have been shown to enhance DNA repair in UV damaged skin in humans.

### THERAPEUTIC BENEFITS / USES

Chronic kidney disease is the progressive loss of kidney function which can cause a harmful buildup of chemicals.

Research suggests that niacinamide may help decrease phosphate levels in people with kidney dysfunction by blocking its absorption.

It's been suggested that niacinamide protects and preserves the beta cells, thereby preventing or delaying the onset of type 1 diabetes in at-risk individuals.

INDUSTRY	APPLICATIONS
Food & Beverage	Nutrient supplement in foods such as dairy, breakfast cereals & infant formulas, as an additive in beverages, energy/health drinks
Health & Personal Care	Used in formulations of foundations, moisturizers, skin care products, lipsticks and eye shadows
Pharmaceuticals	Predominantly used as a dietary supplement & vitamin supplement in health drinks and also used in antipellagra factor drug
Animal Feed	Nutritional supplement in animal feed as well as pet food

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**EXSYN**<sup>®</sup>  
ESSENTIAL CHEMISTRY

### REGISTRATIONS / CERTIFICATIONS

- Y WHO-GMP
- Y FAMI-QS
- Y HACCP
- Y Kosher
- Y Halal

### PACKAGING OPTIONS

- Y Bulk Bags
- Y HDPE/Fibre Drums

### STORAGE

Store in a sheltered place away from sources of heat and moisture

Niacinamide is offered by ExSyn and is available for prompt delivery. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please get in touch with us.