

## Vitamin B3 (Niacinamide USP)

### Specification Sheet

**Description:** Niacinamide PC. New grade of Niacinamide with minimal traces of nicotinic acid. Water-soluble form of niacin, an essential vitamin of the B group, known as vitamin B3. Purity 99-100 %, pH 6-7.5 (5% water solution). White powder, practically odorless. Easily soluble in water & ethanol, soluble in glycerol.

**CAS:** 98-92-0

**INCI Name:** Niacinamide

**Benefits:**

- USP grade
- Has soothing activity useful for blemished skin
- Can improve the appearance of aged, hyperpigmented and photodamaged skin
- Can reduce the appearance of wrinkles and fine lines
- When combined with vitamin A palmitate, niacinamide showed enhanced skin lightening properties

**Use:** Add to water phase of formula or directly into a finished cream or cream base. Typical concentration is 1-6 %, with 5% being a typical and effective concentration. For external use only. Avoid adding to an acidic product, ideal final pH of product should be 6. Should not be combined with l-ascorbic acid. It can hydrolyze and form nicotinic acid at higher or lower pH, which can result in skin irritation. For external use only.

**Applications:** Products for blemished skin, lotions, creams, sun care & after sun products, makeup products, anti-aging products.

**Country of Origin:** Switzerland / China

**Raw material source:** Starting material is 3-methyl-1,5-diaminopentane

**Manufacture:** Niacinamide is made synthetically. 3-methyl-1,5-diaminopentane is processed to picoline (3-methylpyridine), which is ammoxidated and then biocatalytically hydrolyzed to niacinamide.

**Animal Testing:** Not animal tested

**GMO:** GMO free

**Vegan:** Does not contain animal-derived components