



# Allantoin

INCI Allantoin  
CAS 97-59-6

## SPECIFICATIONS

Appearance Fine white powder  
Assay (%) 99.0 minimum  
Odor odorless

## GENERAL INFORMATION

Allantoin is an ingredient used in many cosmetics and in some medical devices. The product is in the form of white odorless crystals or powder.

It is a substance with recognized healing properties, therefore is widely used for the treatment of infections, burns and ulcers. Allantoin can also be used for aftershave, body care and hair care products, mainly for particularly delicate subjects such as children.

Its recognized skin repairing properties make the product suitable for skin care cream and lotions. This ingredient is also effective in countering and reducing the marks left by acne, boils, cuts, burns and various types of eczema.

Its soothing action is also associated with a powerful antioxidant action that promotes healing and tissue repair without particular contraindications.

## FORMULATION & RECOMMENDATIONS

Allantoin belongs to a family of substances with a recognized anti-reddening, anti-inflammatory and soothing effects.

It is used above all for dry skin tending to couperose and more in general for sensitive skin.

Allantoin is often mixed with Hyaluronic acid (on average 0.5-1%) to allow the latter to be incorporated into creams allowing maximum synergy between the two active ingredients. It is useful as an ingredient with a preventive action, in particular in dermatitis, and with a repairing action not only for wounds, scratches, abrasions and small cuts but also in after-sun products, where it is often associated with aloe vera.

Stable at a very wide pH range (from 4 to 9) and therefore suitable for very different subjects, Allantoin is not very soluble in water, Glycerin, Propylene glycol, Methanol, Ethanol and is insoluble in mineral oil. It is therefore included in the last stages of development in the cosmetic or pharmaceutical preparation.

### Recommended concentration

0.1 – 0,5 % (as moisturizing and anti-reddening agent)  
1 – 5 % (exfoliating, keratolytic and re-epithelizing, able to promote cell proliferation)

### Solubility

Very low in cold water, Glycerin, Propylene glycol, Methanol, Ethanol, insoluble in mineral

## BENEFITS

- Efficacy at low concentration
- Multifunctional
- Stable in a wide pH range

## APPLICATIONS

### Pharmaceuticals

### Cosmetics

- Skin Care
- Oral care
- Sun Care
- Hair Care
- Toiletries
- Make up
- Baby Care

## SHELF LIFE

36 months under proper storage conditions