

PRODUCT NAME

AC-AT

DESCRIPTION

AC-AT is a white, odorless, crystalline powder. It is a diureide of glyoxylic acid. It is chemically synthesized, nature-identical, safe, non-toxic, compatible with cosmetic raw materials and meets CTFA and JSCI requirements.

PRODUCT IDENTIFICATION

INCI Name: Allantoin

Chemical Name: (2,5-Dioxo-4-imidazolidinyl) urea

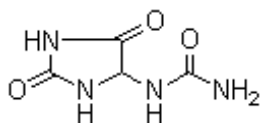
CAS No.: 97-59-6

EINECS Number: 202-592-8

Chemical Formula: $C_4H_6N_4O_3$

Molecular Weight: 158.12

Chemical Structure:

**SPECIFICATION**

ITEMS	SPECIFICATION
Appearance	White crystalline powder
Identification	A. Infrared spectrum is march with the spectrum of allantoin CRS B. Thin-Layer Chromatographic Identification Test
Assay	98.5-101.0%
Loss on drying	≤0.1%
Solubility	Slightly soluble in water Very slightly soluble in alcohol
Melting point	About 225°C, with decomposition
Optical rotation	-0.10° ~ +0.10°
Acidity or alkalinity	To conform
Residue on ignition	≤0.1%
Reducing substances	To conform
Heavy metals (as Pb)	≤10mg/kg

STANDARD

USP40

PROPERTIES

- Accelerating wound healing through cell proliferation
- Soothing, cleansing and healing of the skin
- Effective at low concentration levels
- Breaks up dandruff scales due to keratolytic action

STORAGE AND STABILITY

The product may be stored for 36 months from the date of manufacture in the unopened original container and at room temperature.

It should be protected from light, heat, oxygen and moisture. Keep container tightly closed. Once opened, use contents quickly.

APPLICATIONS

AC-AT can be used in various cosmetic preparations (skin conditioning agent) and pharmaceutical compounds (skin protectant). As a moisturizer it helps to restore the soft and supple feeling to the skin. Examples of application include face, body and hand creams/lotions, moisturizing creams/lotions, face powders, lipsticks and pomades, rouges, make up-products, after-shave, shaving products, bath products, shampoo, sun-protection, toothpaste, mouthwash, etc. It should be used at conditions of pH 5.0-7.0.

DOSAGE

- Skin care/Sun care/Oral care: 0.1-0.3%
- Intensive treatment: 0.5-2.0%