



DL-Panthenol

Popular Name: Pro-vitamin B5 ; DL-Pantothenyl alcohol ; DL-Panthenol

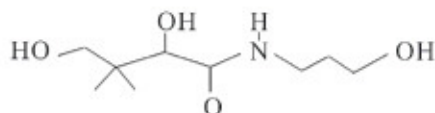
INCI Name: Panthenol

Molecular Formula: C₉H₁₉NO₄

Molecular Weight: 205.25

CAS NO.: 16485-10-2

Structural Formula:



Appearance and Character: DL-Panthenol is a white and hygroscopic powder. It's a racemic mixture of the dextrorotatory and levorotatory isomers of Panthenol, the alcohol analogue of Pantothenic Acid. It is freely soluble in water, ethanol, methanol and propylene glycol, soluble in chloroform and in ether; slightly soluble in glycerin, insoluble in vegetable oils, mineral oils and fats.

Property

Appearance
Identification
Assay
Melting Range
Specific Rotation
Loss on Drying
Residue on Ignition
Limit of Aminopropanol
Organic Volatile Impurities

Specification

white and hygroscopic powder
normal reaction
99.0% - 102.0%
+64.5° ~ +68.5°
-0.05° ~ +0.05°
max. 0.5%
max. 0.1%
max. 0.10%
meets USP requirements

Usage:

DL-Panthenol is the Provitamin of DL-Pantothenic acid (Vitamin B5), which plays a key role in the human intermediary metabolism. Deficiency of Vitamin B5 can result in many dermatological disorders. DL-Panthenol is applied in pharmaceutical industry and almost all types of cosmetic preparations. It cares hair, skin and nails.

Role in the skin: 1. deep penetrating moisturizer 2. stimulates epithelization
3. wound healing effect 4. anti-inflammatory effect

Role in the hair: 1. long lasting moisturizer 2. prevents hair damage
3. thickens hair 4. improves luster and sheen

Role in nail care: 1. improves hydration 2. imparts flexibility

Stability and Storage:

DL-Panthenol is stored in cool, dry place. It should be protected from moisture. If DL-Panthenol is stored at under 25°C in the tightly sealed, original containers, it has a shelf life of 24 months.

Package: 25 kg drum with aluminum laminated polyethylene bag
20 kg carton with aluminum laminated polyethylene bag

Manufacturer: Zhejiang Xinfu Biochemical Co., Ltd.