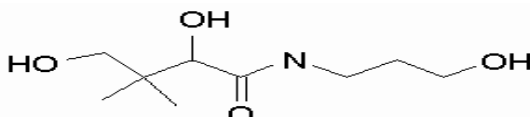


Sandream Enterprises, LLC

DL-Panthenol

INCI Name: Panthenol
CAS No. : 16485-10-2
Molecular Equation: C₉H₁₉NO₄
Molecular Weight: 205.25
Structural Formula:



DL-Panthenol is off-white to cream, crystalline, hygroscopic powder. Any agglomerates must be soft and easily broken. It is a moisturizing and conditioning agent and a source of vitamin B5 for use in hair care and skin care products.

Solubility: freely soluble in water, ethanol, methanol and propylene glycol. Soluble in chloroform and in ether; insoluble in vegetable oil, mineral oil and fats.

Odor and Taste: Slight characteristic odor with a slight bitter taste.

Property	Specification (as per USP)
Appearance:	off-white to cream crystalline powder
Assay:	99.0-102.0% (calculated on the dried basis)
Identification:	Normal Reaction
Melting Point:	64.5 - 68.5 C
Specific Rotation:	between - 0.05° and +0.05°
Loss on Drying:	max. 0.5%
Residue on Ignition:	max. 0.1%
Limit of Aminopropanol:	max. 0.10%
Organic Volatile Impurities:	meets the requirements
Heavy Metal :	max 10 ppm

Stability and Storage: DL-Panthenol is stable to air and light. If it is stored at around 20°C in the tightly sealed original containers, it has a shelf life of at least 24 months. In weakly acidic aqueous solutions, DL-Panthenol is considerably more stable than the salts of pantothenic acid. It is unstable in strong acids and bases.

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

Role in the skin: 1, deep penetrating moisturizer 2, stimulates epithelisation (fibroblast proliferation and normal keratinization) 3, wound healing effect 4, anti-inflammatory effect;

Role in the hair: 1, long lasting moisturizer 2, prevents hair damage 3, thickens hair 4, improve luster and sheen;

Role in nail care: 1, improves hydration 2, imparts flexibility;

Package: 20 kg carton or 25 kg drum with Aluminum laminated polyethylene.