



D-Panthenol 50W

Popular Name: Provitamin B5 ; D-Pantothenyl alcohol ; D-Panthenol ; Dexpanthenol

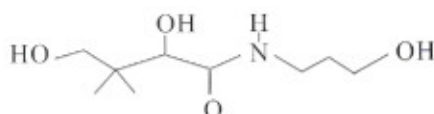
INCI Name: Panthenol (and) Water

Molecular Formula: C₉H₁₉NO₄

Molecular Weight: 205.25

CAS NO.: 81-13-0 (D-Panthenol) 7732-18-5 (Water)

Structural Formula:



Appearance and Character:

D-Panthenol 50W is a slightly yellow or colorless, clear, solution of the pure substance in water. It is soluble in water, methanol, propylene glycol and ethanol, insoluble in fats and oils.

Property

Appearance
Assay
Refractive Index (at 20°C)
Specific Rotation
PH (5% Water)
Heavy Metals
Limit of Aminopropanol
Organic Volatile Impurities

Specification

slightly yellowish or colorless, clear liquid
50.0% ~ 55.0%
1.466 ~ 1.475
+29.0° ~ +31.5°
5.5 ~ 7.0
max. 0.002%
max. 1.0%
meets requirements

Usage:

D-Panthenol 50W 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. D-Panthenol 50W 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:

D-Panthenol 50W is stable to air and light. If it is stored at below 25°C in the tightly sealed, original containers, it has a shelf life of 12 months. In weakly acidic, aqueous solutions, D-Panthenol 50W is considerably more stable than the salts of pantothenic acid. It is unstable in strong acids and bases.

Package: 20 kg carton (two pails in one carton, 10 kg pail); 200 kg drum; 1000 kg IBC

Manufacturer: Zhejiang Xinfu Biochemical Co., Ltd.