



## D-Panthenol 75W

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

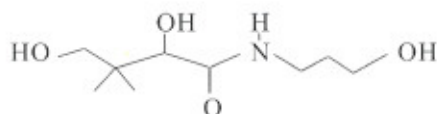
**INCI Name:** Panthenol (and) Water

**Molecular Formula:** C<sub>9</sub>H<sub>19</sub>NO<sub>4</sub>

**Molecular Weight:** 205.25

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

**Structural Formula:**



**Appearance and Character:** D-Panthenol 75W is a slightly yellowish 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  
75.0% ~ 78.5%  
1.466 ~ 1.475  
+29.0° ~ +31.5°  
5.5 ~ 7.0  
max. 0.002%  
max. 1.0%  
meets requirements

### Usage:

D-Panthenol 75W 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 75W 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 75W is stable to air and light. If it is stored at under 25°C in the tightly sealed, original containers, it has a shelf life of 24 months. In weakly acidic, aqueous solutions, D-Panthenol 75W 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.