

D-Panthenol

Water-soluble pro-vitamin B5

Product Description

D-Panthenol (Pro-Vitamin B5) is used in cosmetic, pharmaceutical and nutraceutical formulations for skin and hair health. Available to USP/NF standards.

Certificate of Analysis

HSN Code: 2936.22

CAS Number: 81-13-0

Classification: Pharmaceutical API / Nutraceutical

Parameter	Specification	Test Method
Appearance	Viscous clear liquid or white powder	Visual
Assay	98.0–101.0%	HPLC
Identification	Conforms to reference standard	IR
Refractive Index (liquid)	1.497–1.502	USP <831>
Specific Optical Rotation	+28.0° to +30.5°	USP <781>
Water Content (powder)	"d 0 . 5 %	Karl Fischer
Heavy Metals	"d 2 0 p p m	USP <231>
Residue on Ignition	"d 0 . 1 %	USP <281>

Physical Properties

Appearance: Viscous clear liquid (liquid form) / White powder (dry form)

M o l e c u l a r F o r m u l a : C % H • % N O „

Molecular Weight: 205.25 g/mol

Solubility: Freely soluble in water and ethanol; soluble in glycerol

Melting Point: Liquid form — N/A; Powder: 66–69°C

Packing: 25 kg HDPE drums; 200 kg HDPE drums; 1 kg bottles for lab use

Storage: Store in a cool, dry, well-ventilated area away from light. Below 25°C.

Safety & Handling

PPE: Gloves, safety goggles, lab coat

Hazards:

- Mild irritant
- Combustible at high temperatures