

TECHNICAL DATA SHEET

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D-Panthenol 75W

INCI Name: Panthenol (and) Aqua
Cas No: 81-13-0
Synonyms: -(R)-2,4-dihydroxy-N-(3-hydroxypropyl)-3,3-dimethyl butanamide

D-Panthenol 75W is a 75% aqueous solution of D-Panthenol. It is a slightly yellowish or colourless clear liquid. It is freely soluble in water, methanol, propylene glycol and ethanol; it is insoluble in fats or oils.

The principle use of D-Panthenol 75W is in haircare applications particularly shampoos and conditioners.

Specification

Appearance	Colourless or slightly yellowish transparent liquid, of slightly characteristic odour
*Identification A, Infrared Spectroscopy	The infrared spectrum of the sample compares qualitatively to the standard
*Identification B	Proceed according to procedures, a deep blue colour develops
*Identification C	Proceed according to procedures, a purplish red colour develops
Assay, %	75.0 – 78.5
Optical Rotation, °	+29.5 to + 32.0
Refractive Index at 20°C	1.466 – 1.475
pH	6.0 – 7.5
Limit of Aminopropanol, %	1.0 maximum
Heavy Metals (as Pb), %	0.001 maximum
*Residue on Ignition, %	0.1 maximum
*Aerobic Bacterial Count, cfu/g	100 maximum
*Moulds and Yeast Count, cfu/g	10 maximum

**Additional information randomly tested periodically*

Shelf Life and Storage

Unless otherwise specified, D-Panthenol 75W should be stored at normal temperature. It has a shelf life of 24 months if stored in the original sealed package.

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