

**TECHNICAL DATA SHEET**Effective date: 04.2019
Rev.1**Panthenol****INFORMATION ON SUBSTANCE / MIXTURE**

INCI	Panthenol
Chemical formula	C ₉ H ₁₉ O ₄ N
Chemical description	D-panthenol
Origin	Synthetic
Raw material category	Active ingredient
Description	D-Panthenol is the pro-vitamin of D-Pantheonic acid (vitamin B5)

TECHNICAL DATA**Composition**

D-Panthenol	Min 75 %
Citric acid	Approx 1 %
Water	Max 25 %
Aminopropanol	Max 1.0 %
Stabilizing additives	No preservatives, no antioxidants, no solvents. Others: citric acid.

Physical and chemical parameters

Appearance	Liquid
Color	Clear, colorless to light yellow
Odor	Almost odorless, characteristic
Molecular weight	205.3 g/mol
Heavy metals	Max 10 mg/kg
pH value	5.5 – 7.0
Sulphated ash	Max 0.20 %
Solubility	Soluble in water, ethanol, methanol, propylene glycol. Insoluble in oil.

Biological parameters

Total aerobic microbial count	< 100 cfu/g
Yeasts and molds	< 10 cfu/g

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Rev.1**Panthenol****TRANSPORT, STORAGE and SHELF LIFE**

Storage conditions	Keep in tightly closed containers in a cool and dry place, protected from light. Stable at usual storage and use conditions. Storage temperature between 15-25°C.
Shelf Life	36 months under good storage conditions

LEGISLATION

EINECS / EC	-
CAS	81-13-0

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