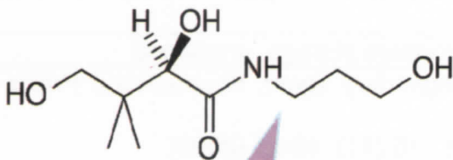


D-panthenol

Product type	Active agent concentrate
Product name	D-panthenol
INCI	Aqua • Pentylene Glycol • Panthenol • Glycerin • Sorbitol • Xanthan Gum
Composition	Provitamin B 5 (panthenol) in aqueous solution
Properties	Panthenol is a provitamin of the vitamin B complex. It increases and regulates the hydration capacity of the skin (moisturizer). It supports the regeneration of the skin and specifically stimulates the cell formation. Panthenol has a smoothing effect on the skin. Panthenol is, amongst others, transformed to pantothenic acid (a constituent of coenzyme A).
Application	<ul style="list-style-type: none"> - Additive to the DMS®-base creams for the treatment of rough and cracked skin - Local skin treatment by applying the pure concentrate.
Dosage (additive for the 44 ml DMS®-base cream unit)	minimum: 1 ml solution maximum: 6 ml solution recommended: 5 - 6 ml solution
Remarks	<ul style="list-style-type: none"> - The active agent concentrate should be applied sparingly to the skin similar to dabbing in an ampoule product. - When using it as an additive for the 44 ml DMS®-base cream unit, start with a low dosage, especially in case the skin care is just being adapted from preparations containing mineral oils and emulsifiers to DMS® products. - As liposome and nanoparticle products improve the penetration capacity of the skin a combination of D-panthenol with these increases its effectiveness. - To be used for skin treatment only. Avoid contact with mucous membranes and eyes. In case of irritations, rinse with water.
Shelf life	At least 36 months at appropriate storage, unopened
References	<ul style="list-style-type: none"> - Energizers – masks and packs, Kosmetik International 2002 (8), 34-37 - Photodamaged skin: sun-bathing and after sun care, Kosmetische Praxis 2006 (3), 8-9



D-panthenol

D-panthenol with a HO-CH₂-group instead of a -CO-

D-panthenol with -CH₂-OH

