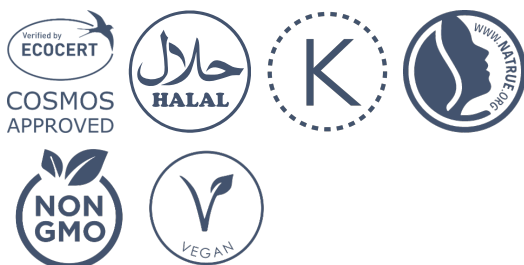


Cosphaderm® Pentiol natural is a naturally derived, high-purity diol that is transparent, colourless and odourless, Its molecular structure, featuring two vicinal hydroxyl groups and a short carbon chain, provides unlimited water solubility, This characteristic makes it particularly suitable as a moisturising and humectant ingredient in both skin care and hair care formulations, Static light scattering studies demonstrate that Cosphaderm® Pentiol natural can additionally support the stabilisation of O/W emulsions by reducing droplet size, Beyond its conditioning benefits, pentylene glycol exhibits pH-independent antimicrobial activity and shows strong synergistic effects when combined with other antimicrobial substances, enabling a reduction in the overall level of preservatives,

Benefits:

- Unlimited water solubility for easy processing in formulations
- Shows remarkable synergistic effect in combination with other antimicrobial substances
- pH-independent performance across a wide formulation range
- Increases emulsion stability by particle size reduction



ISO 16128

Natural Index	0
Natural Origin Index	1

INCI name	Pentylene Glycol	
Source	Sugar cane / corn / wood	
Efficacy Spectrum	Bacteria:	●
	Yeast:	◐
	Mould:	◐
Recommended concentration [%]	1,00 - 3,00	
Substance Class	Diols	
Function	<ul style="list-style-type: none"> • Antimicrobial • Humectant • Skin conditioning • Solvent 	
Type of Formulation	<ul style="list-style-type: none"> • O/W • Surfactant-based • W/O • Water-based • Waterfree 	
Solubility	• Water-soluble	
Appearance	Clear liquid	
Colour	Colourless	
Odour	Odourless or low odour	
Combinable products	<ul style="list-style-type: none"> • Cosphaderm® Magnolia Extract 98 • Cosphaderm® Zinc Lactate natural 	
Item No.	01-011-xxxx	
CAS No.	5343-92-0	

Disclaimer: This product overview is for informational purposes only and does not constitute an official Technical Data Sheet (TDS). For detailed specifications and further information, please contact our sales team at info@cosphatec.com.