

COSPHADERM® PENTIOL GL

Cosphatec

Cosphaderm® Pentiol GL is a pure, transparent, colourless and odourless glycol. Two vicinal OH-groups and a short carbon chain allow unlimited water-solubility. This property is strongly related to its most common cosmetic use as a moisturizer and Humectant for both skin care and hair care formulations. Static light scattering experiments have shown that Cosphaderm® Pentiol GL can also be used to stabilize o/w emulsions by droplet size reduction. Another core property of pentylene glycol is its pH-independent antimicrobial activity. It further shows remarkable synergistic effects in combination with other antimicrobial substances, making it possible to minimize the total amount of combined preserving agents.

- Unlimited water-solubility
- Shows remarkable synergistic effect in combination with other antimicrobial substances
- pH-independent
- Increases emulsion stability by 60% at application concentration of 5%



16128

ISO 16128

Natural Index	0
Natural Origin Index	0

INCI-Name	Pentylene Glycol
Source	Synthetic
Efficacy Spectrum	Bacteria: ● Yeast: ◐ Mould: ◐
pH-range	pH independent -
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• W/O• Surfactant Based• Waterfree• Water-Based
Solubility	<ul style="list-style-type: none">• Water-soluble
Appearance	Clear liquid
Colour	Colourless
Odour	Odourless or faint
Combinable Products	<ul style="list-style-type: none">• Cosphaderm® Octiol• Cosphaderm® Propanediol natural• Cosphaderm® GMCY• Cosphaderm® GMUD• Cosphaderm® Magnolia Extract 98
Item No.	02-007-xxxx
CAS No.	<ul style="list-style-type: none">• 5343-92-0