

Cosphaderm® Hexiol is a pure, transparent and colourless glycol. Two vicinal OH-groups and a short carbon chain allow unlimited water-solubility. This property is strongly relevant 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® Hexiol can also be used to stabilize o/w emulsions by droplet size reduction. Another core property of 1,2-hexanediol 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 around 60% at application concentration of 1.8%



16128

ISO 16128

Natural Index	0
Natural Origin Index	0

INCI-Name	1,2-Hexanediol						
Source	Synthetic						
Efficacy Spectrum	<table border="0"> <tr> <td>Bacteria:</td> <td>●</td> </tr> <tr> <td>Yeast:</td> <td>◐</td> </tr> <tr> <td>Mould:</td> <td>◐</td> </tr> </table>	Bacteria:	●	Yeast:	◐	Mould:	◐
Bacteria:	●						
Yeast:	◐						
Mould:	◐						
pH-range	pH independent -						
Recommended concentration [%]	1.00 - 2.00						
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 • Waterfree • Water-Based 						
Solubility	• 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.	02-005-xxxx						
CAS No.	• 6920-22-5						