

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 |

|                                      |  |
|--------------------------------------|--|
| <b>INCI-Name</b>                     | 1,2-Hexanediol   |
| <b>Source</b>                        | Synthetic  |
| <b>Efficacy Spectrum</b>             | <b>Bacteria:</b> ●<br><b>Yeast:</b> ●<br><b>Mould:</b> ●   |
| <b>pH-range</b>                      | pH independent -   |
| <b>Recommended concentration [%]</b> | 1.00 - 2.00  |
| <b>Substance Class</b>               | Diols  |
| <b>Function</b>                      | <ul style="list-style-type: none"> <li>• Skin conditioning</li> <li>• Solvent</li> <li>• Antimicrobial</li> <li>• Humectant</li> </ul>   |
| <b>Type of Formulation</b>           | <ul style="list-style-type: none"> <li>• Waterfree</li> <li>• Water-Based</li> <li>• O/W</li> <li>• W/O</li> </ul>   |
| <b>Solubility</b>                    | • Water-soluble  |
| <b>Appearance</b>                    | Clear liquid   |
| <b>Colour</b>                        | Colourless   |
| <b>Odour</b>                         | Odourless or faint   |
| <b>Combinable Products</b>           | <ul style="list-style-type: none"> <li>• Cosphaderm® Octiol</li> <li>• Cosphaderm® Propanediol natural</li> <li>• Cosphaderm® GMCY</li> <li>• Cosphaderm® GMUD</li> <li>• Cosphaderm® Magnolia Extract 98</li> </ul> |
| <b>Item No.</b>                      | 02-005-xxxx  |
| <b>CAS No.</b>                       | • 6920-22-5  |