

Portfolio – Preservatives

| INCI | Short description | Application information | | | Antimicrobial efficacy* | | | |
|--|--|-------------------------------|-------------------------------|-----------|-------------------------|--------|-------|------|
| | | Dosage form | Application concentration [%] | pH range | Gram + | Gram - | Yeast | Mold |
| 1,2-Hexanediol | Multifunctional additive with dissolving and wetting properties. Very good water solubility and good antimicrobial activity. Can be combined with organic acids or used alone. | clear, colorless liquid | 0,5 - 1 | unlimited | x | xx | xx | x |
| Caprylyl Glycol | Universal wetting agent with strong antimicrobial properties. pH-independent activity and stability. Can reduce the viscosity of emulsions at higher concentrations. Synergistic combination with organic acids. Reinforcing effect on antimicrobial agents and preservatives. | white solid | 0,3 - 1 | unlimited | x | xx | xx | x |
| Ethylhexylglycerin | Multifunctional active ingredient and preservative booster with synergistic effect for preservative systems. Emollient and moisturizer. Particularly suitable for deodorant formulations. | clear, colorless liquid | 0,3 - 1 | unlimited | x | xx | xx | x |
| Ethylhexylglycerin + Caprylyl Glycol | Mixture of caprylylglycol and ethylhexylglycerol with excellent broad spectrum antibacterial activity. Can be used in "preservative-free" cosmetics. | clear, colorless liquid | 0,6 - 1,0 | 4 - 7 | xx | xx | xx | x |
| Glyceryl Caprylate COSMOS | Plant-based wetting agent with strong activity against bacteria and yeasts. Suitable as a co-emulsifier in low concentrations to improve emulsification. | white crystalline solid | 0,8 - 1 | 4 - 7 | xx | x | xx | |
| Pentylene Glycol | Liquid, water-soluble, multifunctional additive with pH-independent activity, low effect on emulsion stability and moisturizing. In combination or with higher concentrations it improves the antimicrobial effectiveness. | clear liquid | 3 - 5 | unlimited | xx | xx | xx | x |
| Piroctone Olamine | Powdered active ingredient for the treatment of dandruff in hair care products with additional antimicrobial effect. Also for deodorant applications. | white crystalline powder | 0,05 - 1,0 | 4 - 10 | x | x | x | x |
| Potassium Sorbate | Potassium salt of sorbic acid as a synthetic preservative. Protects against yeasts and molds and is very well tolerated by the skin. | powder / spherical / granular | 0,07 - 0,3 | 3,5 - 5,5 | x | x | xx | xx |
| Sodium Benzoate | Sodium salt of benzoic acid as a synthetic preservative. | powder / granular | 0,1 - 0,5 | < 5 | x | x | xx | xx |
| Sodium Dehydroacetate | Approved preservative for cosmetics that inhibits the growth of microorganisms. It has a strong antifungal effect and a broad spectrum of activity against bacteria. | white powder | < 0,6 | 5 - 6,5 | x | x | xx | xx |
| Sodium Polyphosphate | Natural alternative to EDTA with excellent complexing performance, supports preservation and disperses inorganic pigments. | owder | 0,5 - 1 | 5 - 8 | x | x | x | x |
| * The information provided is for guidance only. The results depend on the respective formulation. | | | | | | | | |
| x good effect, but co-active ingredient is required | | | | | | | | |
| xx very good effect alone | | | | | | | | |