1,3-BUTYLENE GLYCOL
SPECIFICATION

Description: 1,3-Butylene glycol is a naturally occurring diol, it is a pure, clear odourless liquid. It is commonly used in the cosmetic industry as a humectant, skin moisturizer, solvent and fragrance enhancer.

1,3-Butylene glycol is ideal especially for ECOCERT COSMOS products and formulations.

Appearance: Colourless clear liquid
Assay (%): 99.00 min
Color (APHA): 20 max
Acidity (as % citric acid): 50 max
Water (%): 0.50 max

APPLICATIONS
Cosmetics:
- Skin care
- Make up
- Hair care
- Antiperspirant
- Toiletries
- Sun care
- Nail care

Fragrances
Natural extracts

FUNCTIONS
- Emollient
- Moisturizing agent
- Solvent
- Preservative booster
- Emulsifier

FORMULATION AND RECOMMENDATIONS

1,3-Butylene glycol is a multifunctional emollient. It is well known in the cosmetic industry for its good moisturizing properties and can improve the performance of preservative systems. It inhibits gram-positive and gram-negative microorganisms as well as moulds and yeasts.

It helps solubilize aqueous insoluble ingredients and stabilizes volatile compounds such as fragrances by fixing them in the cosmetic formulation. It has a very good distribution coefficient and thus leads to better efficacy of preservatives mixed into the formulation. With 1,3-Butylene glycol, Connect Chemicals offers a new natural product derived from (non-GMO) Sugarcane and has got a COSMOS & ECOCERT Certification.

1,3-Butylene glycol is water soluble at room temperature and can be added directly in the aqueous phase.

Concentration recommended: 2 - 30%

CERTIFICATIONS

ECOCERT|COSMOS: approved
NATRUE: allowed

BENEFIT
From natural resources
Moisturizer
Good antimicrobial properties
Fragrance enhancer
Stabilizes volatile compounds
Excellent solubilizing properties
High purity

Minimum Inhibitory Concentrations (MIC)*

In the presence of preservatives (such as Phenoxyethanol, o-Cymen-5-ol, Dehydroactic acid, etc). 1,3-Butylene glycol boosts the performance of the preservative system and stabilizes the formulations. The product can reduce significantly the amount of usual preservatives needed in the formulation.

Bacteria
- Staphylococcus aureus
- Escherichia coli
- Pseudomonas Aeruginosa
- Aspergillus niger
- Candida Albicans

20%
10%
5%
20%
10%

*various sources based on pure product
**APPLICATIONS**

**Cosmetics:** Skin care - Make up - Hair care - Antiperspirant
Toiletries - Sun care - Nail care

**Fragrances**
Natural extracts

**FUNCTIONS**

Emollient
Moisturizing agent
Solvent
Preservative booster
Emulsifier

**EFFICACY**

**Minimum Inhibitory Concentrations (MIC)**

**Bacteria**

- *Staphylococcus aureus*: 20%
- *Escherichia coli*: 10%
- *Pseudomonas Aeruginosa*: 5%
- *Aspergillus niger*: 20%
- *Candida Albicans*: 10%

*various sources based on pure product

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**PACKAGING**

200 kg drums | 1000 kg IBC

**GLOBAL REGULATORY**

**EC:** EINECS listed
**USA:** TSCA listed
**Canada:** DSL listed
**Japan:** JSQI | ENCS (2)-235 | ISHL (2)-235
**China:** IECIC listed
**South Korea:** KECI KE-03787
**Philippines:** PICCS listed
**Australia:** AICS listed
**New Zealand:** HSNO listed (HSR005606)

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