

Connecting**Chemistry**



GLYCERIN

for cosmetic applications

WHAT IS GLYCERIN?

Glycerin is a sugar alcohol. It is created as a by-product in the saponification, hydrolysis or transesterification of fats and oils, followed by the distillation of the raw glycerin to form the purified glycerin.

As this viscous, colour- and odourless liquid is extremely polar, it is easily soluble in water. Due to its easy handling and processing, its compatibility with other raw materials and its water absorbing properties, glycerin is commonly used in many industries.

FUNCTIONS IN COSMETICS

- skin moisturizer
- solvent
- emollient
- humectant
- emulsion stabiliser
- skin protectant
- improves skin elasticity
- improves taste (e.g. in toothpaste)

Glycerin for cosmetic applications

CHARACTERIZATION

- INCI-Name: Glycerin
- Other names: Glycerol, Propan-1-2-3-triol
- Formula: C₃H₈O₃
- CAS Nr.: 56-81-5

TYPICAL APPLICATIONS

- | | |
|----------------------------|---------------------|
| ■ Body creams and -lotions | ■ Lip care |
| ■ Face creams and -lotions | ■ Shampoos |
| ■ Liquid soap | ■ Hair conditioners |
| ■ Soap bars | ■ Hair treatments |
| ■ Shower gels | ■ Hair dyes |
| ■ Shaving products | ■ Sun care |
| ■ Depilatory products | ■ Oral care |

RECOMMENDED USAGE LEVELS

- Creams and lotions: 2 – 5 %
- Rinse-off products: 5 – 10 %
- Toothpastes: up to 30 %
- Shampoos: 1 – 2 %

STABILITY

- 12 months in the sealed original packaging

PACKAGING

- canister*
- drum*
- container
- bulk

* Standard qualities are available in smaller packaging

QUALITY

All products are:

- vegetable in origin
- non-GMO grade

PRODUCT OVERVIEW

- | | |
|---------------------------|---------------------------|
| ■ Glycerin 86,5% | ■ Glycerin 99,5% |
| ■ Glycerin 86,5% RSPO-MB* | ■ Glycerin 99,5% RSPO-MB* |
| ■ Glycerin 86,5% NON-PALM | ■ Glycerin 99,5% NON-PALM |

THE FOLLOWING CERTIFICATES ARE AVAILABLE ON REQUEST:

- | | |
|------------------|-----------|
| ■ Kosher | ■ HACCP |
| ■ Halal | ■ organic |
| ■ COSMOS/Ecocert | |

FURTHER OPTIONS

- Dedicated direct filling into new containers
- Pharma-compliant filling according to GMP
- HACCP compliant filling as standard for RSPO-MB* materials



*About RSPO

RSPO (Roundtable on Sustainable Palm Oil) is a central organization founded on initiative of the WWF in 2004. Its aim is to promote sustainable cultivation methods for palm oil and to limit environmental damage. To guarantee a RSPO-certified

end product, all companies along the value chain have to be RSPO-certified (producer, vendor and cosmetics manufacturer). There are different certificates for palm oil:

- Mass Balance (MB)
- Segregated (SG)
- Book and Claim (BC)