Specifications and Characteristics

INCI	Caprylyl Glycol
CAS REG. N°	1117-86-8
APPEARANCE	White waxy solid / clear colourless liquid
ODOUR	Faint, characteristic
MELTING POINT	28-31°C
SOLUBILITY	0.65% in water at 20°C
RECOMMENDED pH OF USE	2.0 ▸12.0 (unlimited)
RECOMMENDED USE LEVEL	0.1 ▸ 1.0 %
NATURAL ORIGIN INDEX	**1 (ISO 16128)**

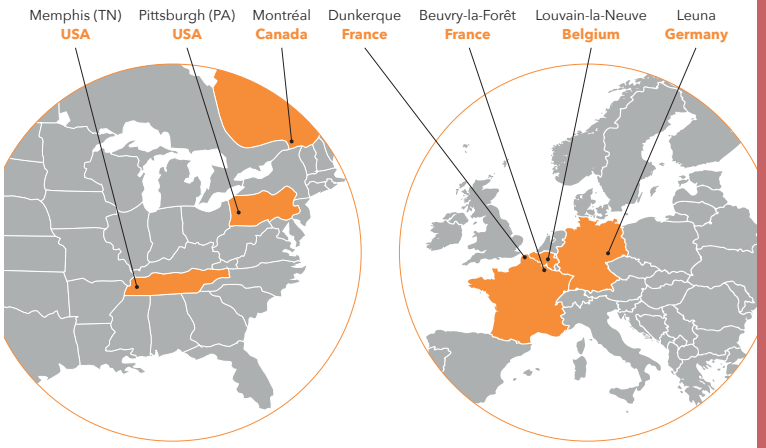
The given information is accurate to the best of our knowledge. Buyers are advised to make their own studies on the usefulness of any product for a particular application or purpose. Recommended usage information is only provided as indication, and should not be considered as recommendations to use the products in violation of any patents, intellectual property rights, laws, or regulations relating, but not limited to, manufacture, composition, product design or end usage.

MINASOLVE® is an affiliate of MINAFIN® Group

Created in 2004, The Minafin® Group is an expert in Health Chemistry, Green Chemistry and Challenging Chemistry. Activities include industrial subcontracting, development of chemical syntheses and industrial scale-up of custom-made processes as well as proprietary products with high added value for the pharmaceutical, cosmetics, agriculture and high-tech industries. Strong synergies exist between all business units: MINASOLVE, MINAKEM, PENNAKEM, PRESSURE CHEMICAL and MINASCENT.

Serving market leaders as well as emerging players we support our customers' efforts to improve the quality of life in the global community by:

- ▸ Improving our chemistry and operational excellence today
- ▸ Creating and innovating for tomorrow
- ▸ Driving our enterprises together to **go beyond expectations**



300 M€ SALES

1050 EMPLOYEES

150 SCIENTISTS

7 PRODUCTION SITES

MINAFIN® GROUP

2025 03. V1.1

Aleen 8

PIONEERING BIO-BASED CAPRYLYL GLYCOL

- ***Multifunctional skin care agent***
- ***Humectant & co-solvent***
- ***Preservative booster***
- ***For self-preserved formulations***

NATRUE APPROVED

COSMOS APPROVED

USDA CERTIFIED BIOBASED PRODUCT

MINASOLVE®
BIO-INGREDIENTS FOR YOUR APPLICATIONS

green solving attitude.

WWW.MINASOLVE.COM

A-Leen 8 from MINASOLVE

EFFICIENCY MEETS NATURALNESS

A-Leen 8 is a **bio-based version of Caprylyl Glycol**, offering the opportunity to incorporate this well-known multifunctional ingredient into natural cosmetics.

Produced using "green chemistry" principles, **A Leen 8** is derived from **sustainably sourced natural oils**. **A-Leen 8** is **COSMOS** and **NATRUE** approved and **USDA**-biobased certified.

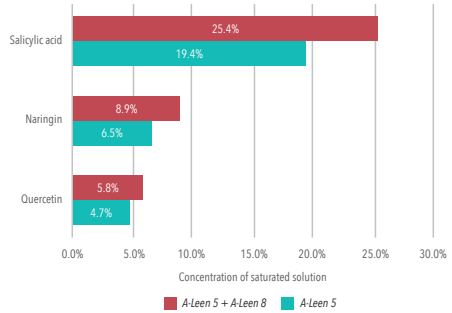
This versatile ingredient serves as both **hair** and **skin** conditioning agent with **emollient and moisturizing properties**. Through its hydrophilic diol moiety, it helps retain water in the upper layers of the skin. Thanks to its lipophilic alkyl chain, it contributes to a pleasant skin feel.

Additionally, **A Leen 8** provides excellent **pH-independent antimicrobial properties**, functioning either as a standalone protecting agent or a preservative booster.

A-Leen 8 is produced as follow :

✓ **A-Leen 8** is made from 100% RSPO-MB certified palm kernel oil

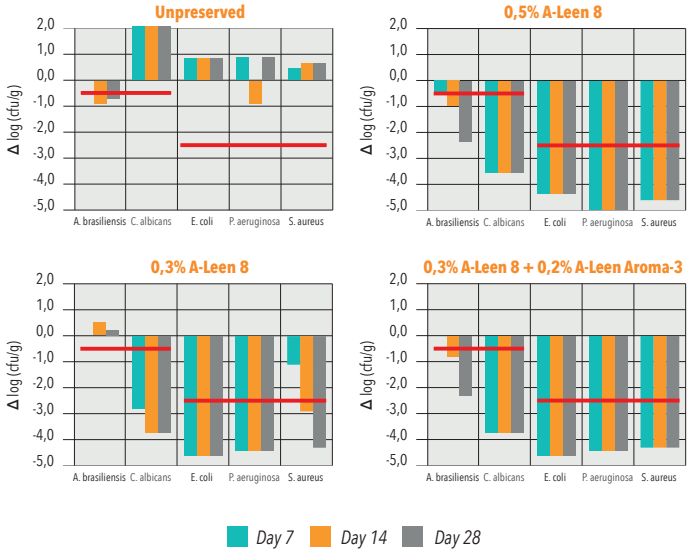
Co-solvent effect



A-Leen 8 enhances the solvent properties of A-Leen 5, leading to significant benefits in **solubilizing (poly)phenolic actives**.

Antimicrobial activity

Challenge test results (ISO 11930) in O/W emulsion, pH 5.5



Phase	Raw material	INCI	%
A	Water	Aqua	ad 100
	Xanthan Gum [1]	Xanthan Gum	0.5
	A-Leen Aroma-3 [2]	**Phenylpropanol**	**0.0/0.2**
	A-Leen 8 [2]	**Caprylyl Glycol**	**0.0/0.3/0.5**
B	Emulgade PL 68/50 [3]	Cetearyl Glucoside (and) Cetearyl Alcohol	5.0
	Shea Butter [4]	Butyrospermum Parkii (Shea) Butter	3.0
	Jojoba Oil [4]	Simmondsia Chinensis (Jojoba) Oil	3.0
	Hazelnut Oil [5]	Corylus Avellana (Hazel) Seed Oil	3.0
C	Bioxan T70 [6]	Tocopherol	0.1
D	Citric Acid (aq.)	Citric Acid (and) Aqua	ad pH 5.5

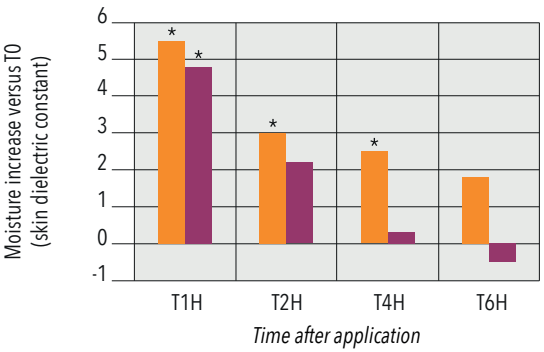
Raw material suppliers:

[1] Jungbunzlauer, [2] Minasolve, [3] BASF [4] Caesar & Loretz, [5] SanaBio, [6] BTSA

A-Leen 8 turns the formulation into a self-preserving product that **passes the challenge test with criteria A.** **A-Leen 8** has a **synergistic effect** with **A-Leen Aroma-3**.

Skin moisturizing effect

Corneometry study over 6 hours - A-Leen 8 tested on 10 volunteers in O/W emulsion



The **O/W emulsion containing 1%** **A-Leen 8** showed a statistically significant increase in skin hydration cream after 1, 2, 4 hours from the application. The moisture increase was higher compared to the placebo cream.

Applications

It is recommended to melt **A-Leen 8** at a temperature of 40-50°C prior to use.

Late addition to emulsions is recommended for optimal antimicrobial properties. Ideally, **A-Leen 8** is added after the emulsification step. This method helps maintain the initial viscosity and ensures the stability of the emulsion.

Alternatively, **A-Leen 8** may be added upfront to the water phase. This way it can assist in dispersing gums or pigments and in solubilizing other components.

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BIO-INGREDIENTS FOR YOUR APPLICATIONS

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