



Specifications and Characteristics

| | |
|-----------------------|--|
| INCI | Phenylpropanol |
| CAS REG. N° | 122-97-4 |
| APPEARANCE | Clear oily liquid, colourless |
| ODOUR | Characteristic |
| PURITY | Min. 98.5% |
| SOLUBILITY | Soluble in water up to 0.8%, miscible with polar oils and alcohols |
| RECOMMENDED PH OF USE | 3.0 ▶ 10.0 ("unlimited") |
| RECOMMENDED USE LEVEL | 0.05 ▶ 1.0% |
| REGULATORY STATUS | Globally approved |
| ORIGIN | derived-natural, 100% renewable carbon |
| NATURAL ORIGIN INDEX | 1 (ISO 16128) |
| CHEMICAL STRUCTURE | <chem>OCCc1ccccc1</chem> |

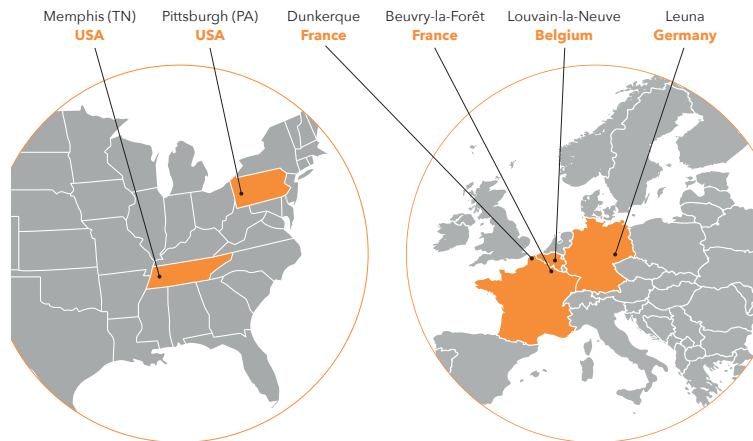


MINASOLVE® is an affiliate of MINAFIN® Group

Created in 2004, **The MINAFIN® Group**, specializes in fine chemistry for the life sciences and high tech industries. 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, MINAGRO, PENNAKEM, PRESSURE CHEMICALS, MINASCENT and EcoXtract.

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**



MINAFIN®
GROUP

2020.10. V4.2

A leen®
Aroma-3



**PIONEERING NATURE-DERIVED
PHENYLPROPANOL**

- ✓ **Broad-spectrum anti-microbial effect**
- ✓ **Largely pH-independent**
- ✓ **Natural aromatic ingredient**



COSMOS
APPROVED



NATRUE
APPROVED



MINASOLVE®
BIO-INGREDIENTS FOR YOUR APPLICATIONS

**green
solving
attitude.**

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A-Leen Aroma-3 from MINASOLVE:

FOR GREEN ANTIMICROBIAL PROTECTION OVER A LARGE pH RANGE

A-Leen Aroma-3 is a fragrance component naturally occurring in flowers and fruits – such as hyacinths, narcissus and ripe strawberries.

A-Leen Aroma-3 is produced starting from Cassia essential oil, which is traditionally obtained by steam distillation from the leaves and branches of the Chinese cinnamon tree *Cinnamomum cassia*.

The whole manufacturing process of **A-Leen Aroma-3** is in accordance with the principles of “green-chemistry”.

A-Leen Aroma-3 is produced as follow :



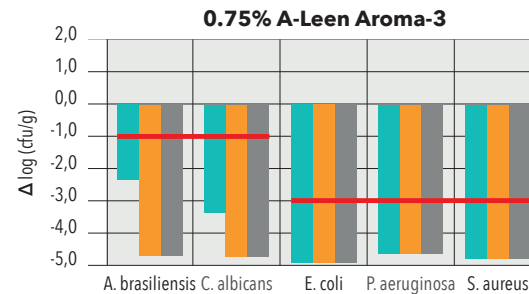
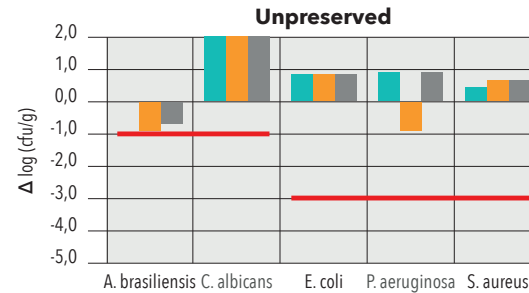
A-Leen Aroma-3 has been recognized as a **Bronze Green Ingredient Award** winner during In-Cosmetics Global 2020.

A-Leen Aroma-3 is a mild perfuming agent. It brings a comfortable, **balsamic and spicy oriental note** to personal care products.

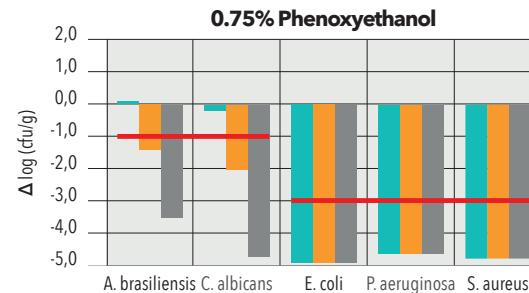
A-Leen Aroma-3 also shows a **broad spectrum antimicrobial activity** that helps to design **self-preserving cosmetic products**. This activity is largely **pH-independent**. The antimicrobial effect can be further supported by combination with antimicrobial boosting agents, such as nature-derived Pentylene Glycol (“A-Leen 5”). Challenge tests results on micellar water, pH 7.0, a combination of 0.5% **A-Leen Aroma-3** with 1.5% A-Leen 5 (criteria A) are available upon request.

Antimicrobial activity

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



A-Leen Aroma-3 fulfills criteria A



A-Leen Aroma-3 is more effective than Phenoxyethanol (criteria B)

Legend: Day 7 (teal), Day 14 (orange), Day 28 (grey). Red line: ISO 11930 requirements for log (cfu/g) reduction after 28 days (criteria A)



| Phase | Raw material | INCI name | % |
|-------|--|---|------------------|
| A | Water | Aqua | ad 100.0 |
| | Xanthan Gum ⁽¹⁾ | Xanthan Gum | 0.50 |
| B | Emulgade PL 68/50 ⁽²⁾ | Cetearyl Glucoside (and) Cetearyl Alcohol | 5.00 |
| | Shea Butter ⁽³⁾ | Butyrospermum Parkii (Shea) Butter | 3.00 |
| | Joboba Oil ⁽³⁾ | Simmondsia Chinensis (Jojoba) Oil | 3.00 |
| | Hazelnut Oil ⁽⁴⁾ | Corylus Avellana (Hazel) Seed Oil | 3.00 |
| C | Bioxan T70 ⁽⁵⁾ | Tocopherol | 0.10 |
| D | A-Leen Aroma-3 ⁽⁶⁾ or Phenoxyethanol | Phenylpropanol or Phenoxyethanol | 0/0.75 0/0.75 |
| E | Citric Acid (50%) | Citric Acid (and) Aqua | ad pH 5.5 |

Raw material suppliers:

⁽¹⁾ Jungbunzlauer ⁽²⁾ BASF ⁽³⁾ Caesar & Loretz ⁽⁴⁾ Sanabio ⁽⁵⁾ BTS A ⁽⁶⁾ **Minasolve**

Applications

A-Leen Aroma-3 is soluble in water up to 0.8% at 20°C. It is also miscible with alcohols, polar oils and emollient esters.

A-Leen Aroma-3 is suitable for hot or cold processing (max. 100 °C). For maximum efficacy as perfuming and antimicrobial agent, it is preferably incorporated after emulsification.

A-Leen Aroma-3 is compatible with most common cosmetic ingredients, its antimicrobial activity may be decreased in the presence of ethoxylated surfactants.



HIGH pH

The given information is accurate to the best of our knowledge. Customers are advised to perform their own studies on the usefulness of any ingredient for a particular application. Any recommended usage information is only provided as indication, and should not be considered as recommendation to violate of any laws, patents, or official regulations dealing with manufacture, composition, local procedures, product design, or end usage.