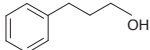




## Specifications and Characteristics

INCI	Phenylpropanol
CAS REG. N°	122-97-4
APPEARANCE	Clear oily liquid, colourless
ODOUR	Characteristic
PURITY	Min. 98%
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	<b>derived-natural, 100 % renewable carbon</b>
NATURALITY INDEX	<b>0.97 (ISO 16128-2)</b>
CHEMICAL STRUCTURE	



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**MINAFIN**<sup>®</sup>  
GROUP

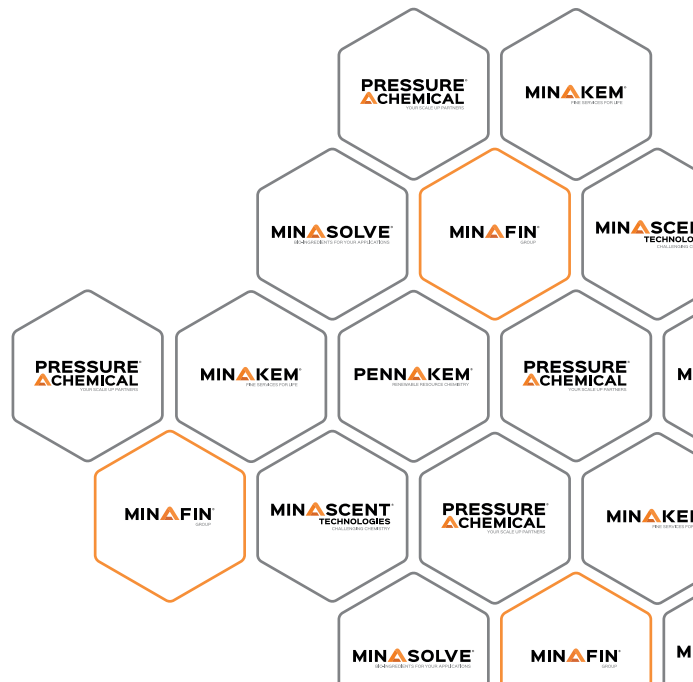
## Minasolve<sup>®</sup> is a brand of Minafin<sup>®</sup> Group

The Minafin<sup>®</sup> Group, whose affiliates develop and manufacture active pharmaceutical ingredients, organic intermediates and specialty fine chemicals for the life science industries and technical applications **is organized around 5 brands**, each dedicated to specific end-users or chemical technologies :

- ▶ Minakem<sup>®</sup>
- ▶ Minasolve<sup>®</sup>
- ▶ Pennakem<sup>®</sup>
- ▶ Pressure Chemical<sup>®</sup>
- ▶ Minascent<sup>®</sup>

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**



**A leen**<sup>®</sup>

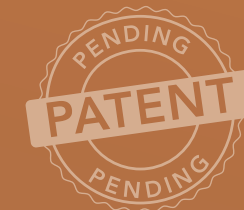


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# Aroma-3

## PIONEERING NATURE-DERIVED PHENYLPROPANOL

- ✓ *Broad-spectrum anti-microbial effect*
- ✓ *Largely pH-Independent*
- ✓ *Natural aroma ingredient*
- ✓ *Free of fragrance allergens*



**MINASOLVE**<sup>®</sup>  
BIO-INGREDIENTS FOR YOUR APPLICATIONS

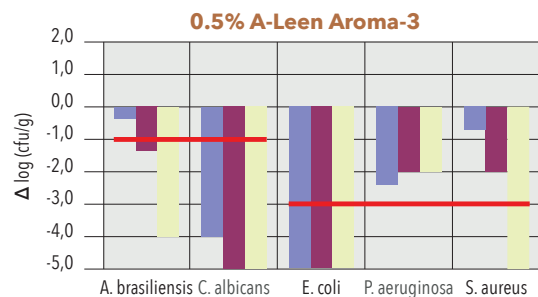
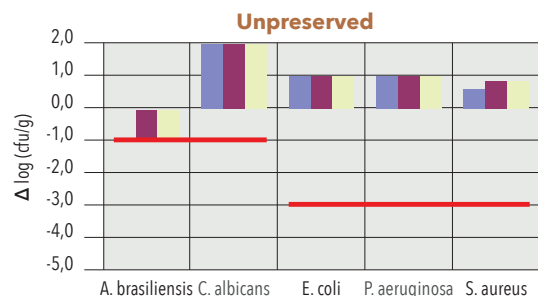
**green  
solving  
attitude.**

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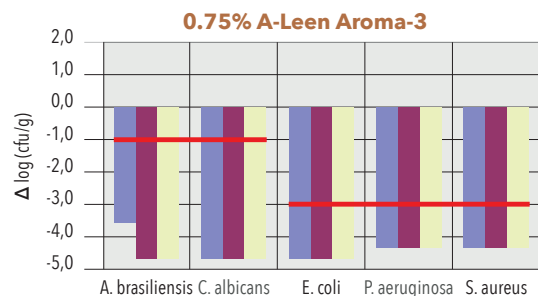
## Challenge tests according to ISO 11930

### O/W-emulsion, pH 5.5

Broad-spectrum antimicrobial effect



Fulfilled criteria A (ISO 11930)



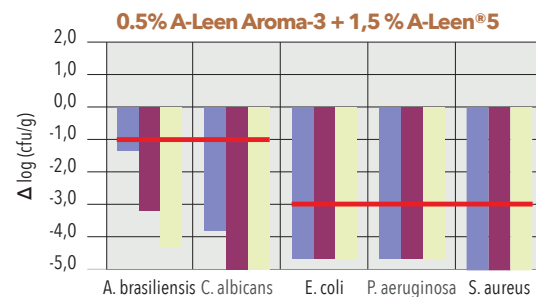
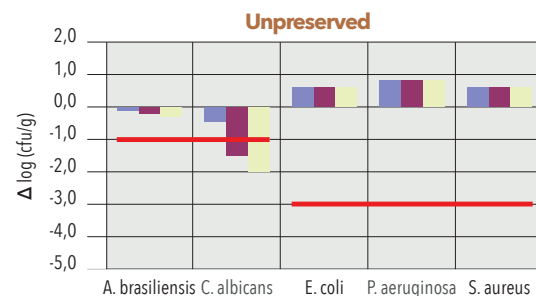
Phase	Raw material	INCI name	%
A	Water	Aqua	84.65
	Xanthan Gum <sup>(2)</sup>	Xanthan Gum	0.5
B	Emulgade PL 68/50 <sup>(3)</sup>	Cetearyl Glucoside (and) Cetearyl Alcohol	5.0
	Lipex Sheasoft <sup>(4)</sup>	Butyrospermum Parkii (Shea) Butter	3.0
	Joboba Oil <sup>(5)</sup>	Simmondsia Chinensis (Jojoba) Seed Oil	3.0
	Apricot Oil <sup>(5)</sup>	Prunus Armeniaca Kernel Oil	3.0
C	DL-α-Tocopherol (>97%)	Tocopherol	0.1
	A-Leen Aroma-3 <sup>(1)</sup>	Phenylpropanol	0.75
D	Citric Acid	Aqua (and) Citric Acid	Qs

#### Raw material suppliers:

<sup>(1)</sup> Minasolve <sup>(2)</sup> Jungbunzlauer <sup>(3)</sup> BASF <sup>(4)</sup> AAK <sup>(5)</sup> Caesar & Loretz

### Micellar Water, pH 7.0

Pentol Green+™ boosts A-Leen Aroma-3 to reach Criteria A



Legend: Day 7 (blue), Day 14 (purple), Day 28 (yellow). Red line: ISO 11930 requirements for loa (cfu/a) reduction after 28 days (criteria A)

Phase	Raw material	INCI name	%
A	Water	Aqua	89.55
	Allantoin	Allantoin	0.2
	Glycerin	Glycerin	3.0
	A-Leen 5 <sup>(1)</sup>	Pentylene Glycol	1.5
	Chamomile-Eco <sup>(3)</sup>	Glycerin (and) Water (and) Chamomilla Recutita (Matricaria) Flower Extract	1.0
	Glycerox 767 <sup>(4)</sup>	PEG-6 Caprylic/Capric Glycerides	2.0
	Plantacare 810 UP <sup>(2)</sup>	Caprylyl/Capryl Glucoside	2.0
B	A-Leen Aroma-3 <sup>(1)</sup>	Phenylpropanol	0.75
C	Lactic acid solution / Sodium hydroxide solution	Aqua (and) Lactic Acid/ Sodium Hydroxide	Qs

#### Raw material suppliers:

<sup>(1)</sup> Minasolve <sup>(2)</sup> BASF <sup>(3)</sup> Provital Group <sup>(4)</sup> Croda

**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 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").

## Applications

- ▶ **A-Leen Aroma-3** shows a broad spectrum antimicrobial activity which can be further supported by combination with antimicrobial boosting agents. The antimicrobial efficacy of **A-Leen Aroma-3** may be decreased in the presence of ethoxylated surfactants.
- ▶ **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 into an aqueous phase and/or after emulsification. The ingredient is compatible with most common cosmetic ingredients.

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.