

C-096

# BODY SHAMPOO

## MOISTURIZING

### GUIDELINE FORMULARY

#### DESCRIPTION

Very mild body shampoo  
Especially recommended for sensitive skin  
Creamy foam  
Moisturizing effect  
Good ratio price-quality

#### COMPOSITION

	%
EMAL® 227E <sup>(1)</sup>	32.0
BETADET® HR	5.0
AKYPO® SOFT 100 BVC	3.0
BETADET® S-20	3.0
LEVENOL® H&B	2.0
AMIDET® N	1.0
KAO Fragrance	q.s.
Preservative	q.s.
Additives	q.s.
Citric acid 10%	q.s.
NaCl	q.s.
Deionized Water	Up to 100

(1) 32% of EMAL® 227E can be replaced by 12% approx. of EMAL® 270D

Add a 3% of **DANOX® PL-10** for a Pearled formula

#### TECHNICAL CHARACTERISTICS

#### Kao Method

APPEARANCE (20°C):	Clear viscous liquid	KCSA-258
pH (as it is):	5.5 - 6.0	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 6,000	KCSA-227
DRY MATTER (%):	Approx. 16	KCSA-092
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

## RECOMMENDED OPERATIVE METHOD

---

Add to the deionized water each component, keeping the above mentioned order and stirring after each addition until total homogeneity.

Add the other additives: preservative (soluble), perfume (15 minutes of agitation are usually needed to solubilize it), dyes (diluted in water), other (extracts, etc.). To improve perfume solubilization it is advisable to mix it with AMIDET® N.

Adjust pH (it is recommended to use citric or lactic acids, and diluted sodium hydroxide if a pH increase is necessary)

Adjust the final desired viscosity using sodium chloride.

## COMMENTS

---

If high conditioning effect is desired, other type of components can be added (extracts, protein hydrolizates, cationic polymers, etc.), taking always under account supplier advises.

## COMPONENTS

---

**AMIDET® N** (PEG-4 Rapeseedamide, ≈ 95% a.m.): non-ionic character. Nitroso-amines free thickener. It increases the foam volume and improves the quality of it. It reduces the irritation potential of the anionic surfactants on the skin. Multi-functional agent.

**AKYPO® SOFT 100 BVC** (Sodium Laureth-11 Carboxylate, ≈ 70% a.m.): crypto-anionic character, it combines the properties of the anionic and non-ionic surfactants. Foaming co-surfactant, with solubilizing properties and very mild for the skin.

**BETADET® HR** (Cocamidopropyl Betaine, ≈ 35% dry matter): amphoteric character. Secondary surfactant. It decreases the irritation level of the anionic surfactants on the skin, improving level and quality of the foam. Additional thickening affect.

**BETADET® S-20** (Lauryl Hydroxysultaine, ≈ 38% a.m.): amphoteric character. Very mild co-surfactant. It decreases the irritation level of anionic surfactants, improving the quality of the foam and performing also as a thickener. It improves the stability of the formula at extreme pH's and low temperature.

**DANOX® PL-10** (pearling concentrate, ≈ 52% dry matter): anionic and non-ionic character. Nitroso-amines free product (its composition doesn't contain any Nitrogen derivative). It allows modifying the final appearance of the formula, providing it with a beautiful pearled appearance. No heating is needed. Ecological product. Suggested dosage: 3 - 10%.

**EMAL® 227E** (Sodium Laureth Sulfate, ≈ 27% a.m.): anionic character. Primary surfactant, highly foaming. Good detergent properties.

**LEVENOL® H&B** (Glycereth-2 Cocoate, ≈ 100% a.m.): non-ionic character. Extra-mild surfactant, with emulsifying properties. Skin emollient and moisturizing agent. Foam booster and thickening agent. Ecological product. It doesn't need any risk or safety warnings on its label. In hair rinse application increases the conditioning effect of the cationic component, giving smoothness. % of use in Hair Rinse = between 0.1 - 2%.

The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purpose.

Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.

---

Ref. C308001

(Edited Jan 2008. Updated version July 2020)



Enriching lives,  
in harmony with nature.

[www.kaochemicals-eu.com](http://www.kaochemicals-eu.com)