

# C-245

# CONDITIONING SHAMPOO

## GUIDELINE FORMULARY

### DESCRIPTION

Mild shampoo  
Improves combing  
Highly foaming  
It contains natural EO free thickener

### COMPOSITION

	%
EMAL® 270D <sup>(1)</sup>	16.2
BETADET® S-20	3.4
AKYPO® RLM 45CA	1.7
EXCEPARL® LM-LC	1.5
Hydroxypropyl Guar Hydroxypropyltrimonium Chloride <sup>(2)</sup>	0.3
Tocopheryl Acetate <sup>(3)</sup>	0.2
KAO Fragrance	q.s.
Dye(s)	q.s.
Preservative	q.s.
Citric Acid (10% solution)	q.s.
Deionized Water	Up to 100

(1) 16.2% of EMAL® 270D (SLES at 70% a.m.) can be substituted by 42% of EMAL® 227E (SLES at 27% a.m.).

(2) Jaguar® C-162 from Rhodia

(3) Dermofeel® E74A from Dr. Straetmans

### TECHNICAL CHARACTERISTICS

### Kao Method

APPEARANCE (20°C):	Clear liquid	KCSA-258
pH (as it is):	5.0 - 5.5	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 3,000	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

## RECOMMENDED OPERATIVE METHOD

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Add to the Deionised Water, Hydroxypropyl Guar Hydroxypropyltrimonium Chloride and stir well until a homogeneous dispersion is obtained.

Add AKYPO® RLM 45CA, BETADET® S-20, EXCEPARL® LM-LC and EMAL® 270D stirring after each addition until total homogeneity.

Adjust pH (it is recommended to use diluted sodium hydroxide to increase it and lactic acids if a pH decrease is necessary).

Add the other additives: preservative (soluble), fragrance (15 minutes of agitation are usually needed to solubilize it), dye(s) (diluted in water) and other (extracts, etc.).

## COMPONENTS

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**AKYPO® RLM 45CA** (Laureth-6 Carboxylic acid, ≈ 95% 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® 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.

**EMAL® 270D** (Sodium Laureth Sulfate, ≈ 70% a.m.): anionic character. Primary surfactant, highly foaming. Good detergent properties.

**EXCEPARL® LM-LC** (Lauryl Lactate, ≈ 100% a.m.): non-ionic character. Liquid ingredient derived from renewable sources. Thickener for cleansing compositions. It can be added at room temperature. Recommended dosage for rinse-off formulations, between 0.3 and 3%. For skin care application, it performs as skin emollient with high/medium spreadability and low oiliness. Recommended use percentage for skin care is 10% max. Excellent solubilizing properties for UV-filters.

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.

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Ref.C11002\_C-169A

(Edited May 2015. Updated version July 2020)



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