

C-244

CONDITIONING SHAMPOO

GUIDELINE FORMULARY

DESCRIPTION

Repairing shampoo
Silicone free formula

COMPOSITION

	%
EMAL® 270D	16.4
AKYPO® RLM 45CA	4.4
BETADET® HR	8.3
AMIDET® N	1.5
KAO SOFCARE® GP-1	0.6
QUARTAMIN® AB	0.6
Polyquaternium-7	1.1
Polyquaternium-10	0.4
Preservative	q.s.
KAO Fragrance	q.s.
Citric Acid (10% solution)	q.s.
Deionized Water	Up to

(1) 16.4% of EMAL® 270D (SLES at 70% a.m.) can be substituted by 42.5% of EMAL® 227E (SLES at 27% a.m.).

TECHNICAL CHARACTERISTICS

Kao Method

APPEARANCE (20°C):	Clear transparent gel	KCSA-258
pH (as it is):	Approx. 6	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 7,000	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

RECOMMENDED OPERATIVE METHOD

Heat the water up to 70°C and add the following ingredients: BETADET® HR, QUARTAMIN® AB and polyquartenium-10 and polyquartenium-7 and then stir until complete homogenization. Cool down the temperature until 40-35°C.

Add each one of the remaining ingredients, EMAL® 270D, AKYPO® RLM 45CA, AMIDET® N, KAO® SOFCARE GP-1® and stir until complete homogenization after each addition.

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.)

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

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® 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® 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.

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

KAO SOFCARE® GP-1 (PPG-3 Caprylyl Ether, ≈ 100% a.m.): non-ionic character. Clear transparent liquid at room temperature. Multi-functional conditioning agent that imparts similar characteristics to those of silicones, such as feel and functionality. It improves foam generation and hair shine.

QUARTAMIN® AB (Behentrimonium Chloride, ≈ 82% a.m.): cationic character. High conditioning surfactant, with substantive properties. It provides smoothness, shine and anti-static effect to the hair.

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. C13001(SH2)

(Edited March 2015. Updated version July 2020)



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