

# C-239

# CONDITIONER SHAMPOO

## SILICONE BOOSTING

### GUIDELINE FORMULARY

#### DESCRIPTION

Hair becomes smooth and shiny  
Restores dry and damaged hair  
Improves combing

#### COMPOSITION

	%
EMAL® 227E <sup>(1)</sup>	37.0
BETADET® HR	10.0
AKYPO® RLM 45CA	3.3
AMIDET® N	2.0
KAO SOFCARE® GP-1	1.5
Silicone Quaternium-16 <sup>(2)</sup>	2.3
Polyquaternium-10 <sup>(3)</sup>	0.3
KAO Fragrance	q.s.
Preservative	q.s.
NaCl	q.s.
pH adjuster	q.s.
Deionised Water	Up to 100

(1) 37% of EMAL® 227E (SLES at 27% a.m.) can be substituted by 14.27% of EMAL® 270D (SLES at 70% a.m.).

(3) DOWSIL® 5-7113 from Dow

(2) UCARE™ Polymer JR-400 from Dow

#### TECHNICAL CHARACTERISTICS

#### Kao Method

APPEARANCE (20°C):	Clear	KCSA-258
pH (as it is):	5.0 - 5.5	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 5,500	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

## RECOMMENDED OPERATIVE METHOD

---

At room temperature, dissolve the Polyquaternium-10 in water.

Once it is dispersed, add the remaining ingredients and stir until complete homogenization after each addition. Adjust pH to 5.0-5.5 (usually Citric Acid or Lactic Acid are recommended to decrease the pH and Sodium Hydroxide or TEA to increase it).

Adjust the final viscosity using Sodium Chloride until desired level.

## COMPONENTS

---

**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.

**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.

**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® 227E** (Sodium Laureth Sulfate, ≈ 27% 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.

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. X8B (C15001)

(Edited May 2015. Updated version July 2020)



Enriching lives,  
in harmony with nature.

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