

C-228

# BABY SHAMPOO

ULTRA MILD

## GUIDELINE FORMULARY

### DESCRIPTION

SLES and Sulfate free formulation

Very mild

Advisable for babies

### COMPOSITION

	%
OXIDET® L-75C	25.0
AKYPO® RLM 45CA	7.9
AMIDET® N	5.0
EXCEPARL® LM-LC	0.3
Tocopheryl Acetate	0.2
KAO Fragrance	q.s.
Dye(s)	q.s.
Preservative	q.s.
NaOH (10% solution)	q.s.
Deionized Water	Up to 100

### TECHNICAL CHARACTERISTICS

### Kao Method

APPEARANCE (20°C):	Clear liquid	KCSA-258
pH (as it is):	Approx. 6.0	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 3,000	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C/cycles)

## RECOMMENDED OPERATIVE METHOD

---

Add AKYPO® RLM 45CA to the water. Stir until clear and continue with the addition of the other components, AMIDET® N, OXIDET® L-75C and EXCEPARL® LM-LC.

Adjust pH to 6.0 - 7.0 (it is recommended to use diluted sodium hydroxide to increase it and citric or lactic acid 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.).

If desired adjust the final viscosity using Sodium Chloride.

## COMPONENTS

---

**AKYPO® RLM 45 CA** (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.

**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.

**OXIDET® L-75C** (Cocamidopropylamine Oxide, ≈ 33% a.m.): non-ionic/cationic character (at low pH). Foam booster and formulation stabiliser at low temperature. Additional thickening effect.

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. C11002\_C-168/2

(Edited May 2011. Updated version July 2020)



Enriching lives,  
in harmony with nature.

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