

# BEAULIGHT<sup>®</sup> LCA-25F



Original-  
Technology

Sodium Laureth-4 Carboxylate



Anionic Sulfate Free Surfactant  
Foam Booster



Derived from Narrow Distribution of  
Ethylene Oxide



Low-Irritation to Skin & Eyes



Excellent  
biodegradability



# BEAULIGHT® LCA-25F

Anionic Sulfate Free Surfactant

## ◆ Feature

- Excellent Foaming Property  
Derived from Narrow Distribution of Ethylene Oxide
- Low-Irritation to Skin & Eyes
- Highly Compatible with Common Surfactants
- Bio-Degradable
- RSPO certification acquired(Spring 2023).



## ◆ Component

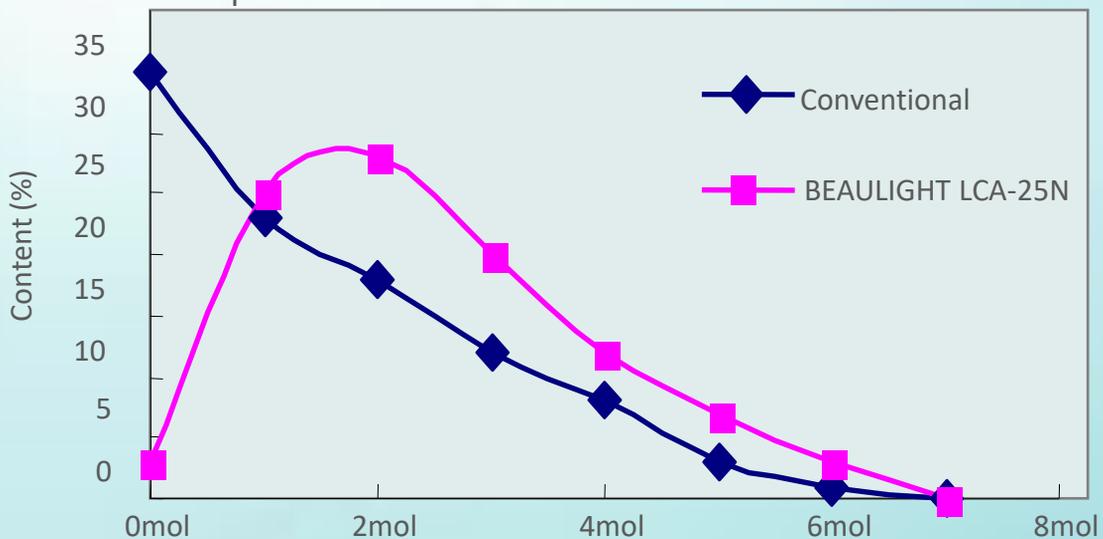
INCI Name	Evaporated residue	Appearance
Sodium Laureth-4 Carboxylate	28%	Liquid, Clear, Colorless to Yellowish

## ◆ Alkylene Oxide Adduct(AOA) Narrowing Technology



( $n \approx 3$ )

The number of EO adducted  
Composition of "SODIUM LAURETH-4 CARBOXYLATE"



## ■ Strengths

- ✓ Reduced content of unreacted alcohol
- ✓ Sharpened EO addition mole distribution



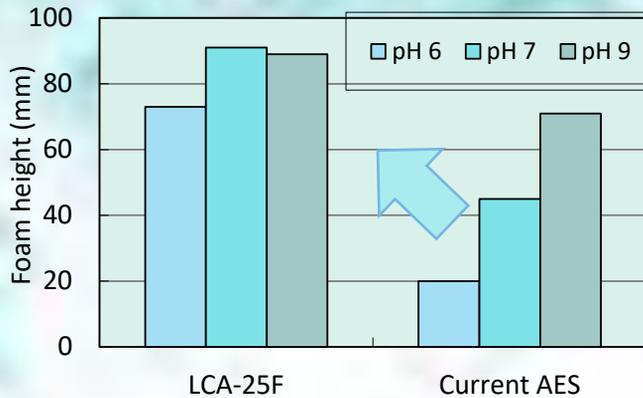
**High foaming ability**  
**High thickening effect**

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## ◆ Application Data

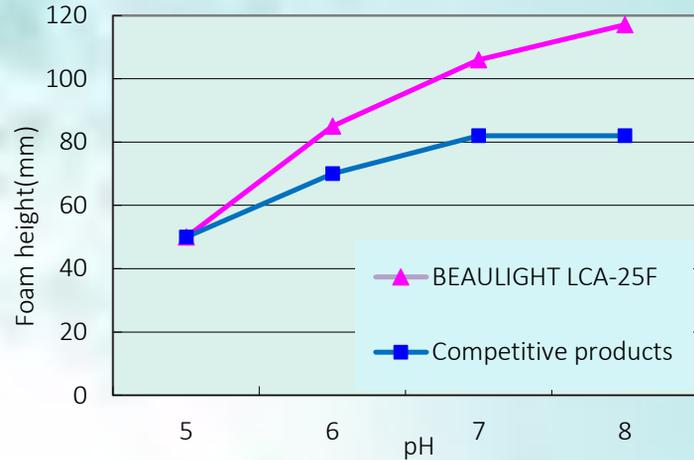
### ■ Foaming property



Good foaming over a wide pH range

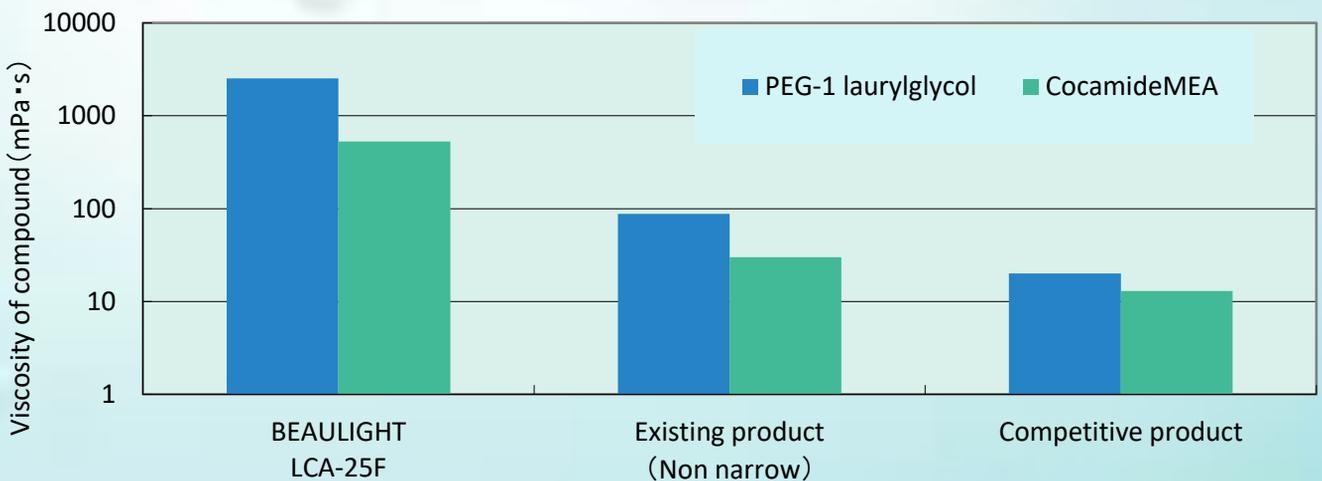
### ■ Bubbling power

(effective concentration: 0.2%)



All are "INCI: Sodium Laureth-4 Carboxylate", but BEAULIGHT LCA-25F has higher foaming power than other products

### ■ Viscosity of compound



### ● Combination formula

Ingredients	Concentration of active ingredient (%)
Sodium Laureth-4 Carboxylate	13.0
Cocamidopropyl Betaine	3.0
Thickeners in table	3.0
Total	100.0(pH5.9)

BEAULIGHT LCA-25F has a higher degree of thickening effect than other products.

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## ◆Formula

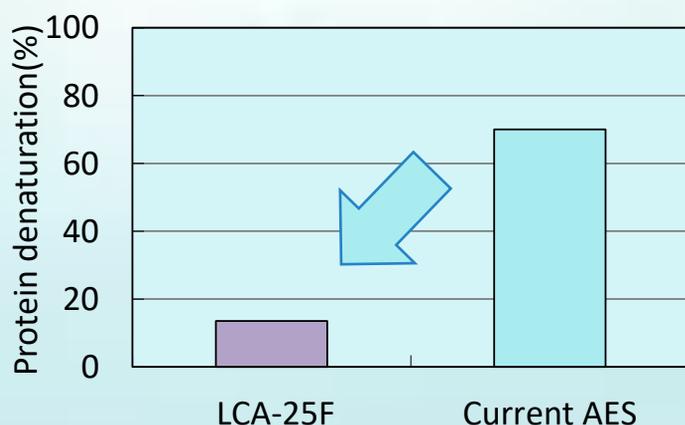
	INCI Name	Sanyo's Product name	Formulation(wt%)
A	Water		45.25
	Citric Acid		0.15
	Cocamidopropyl Betaine	LEBON 2000HG	15
	<b>Sodium Laureth-4 Carboxylate</b>	<b>BEAULIGHT LCA-25F</b>	<b>32</b>
B	PEG-190 Distearate	EMULMIN 862	0.5
	PEG-1 Lauryl Glycol	NEWPOL DDE-10	1
	<b>Sodium Lauryl Glycol Carboxylate</b>	<b>BEAULIGHT SHAA</b>	<b>5</b>
C	Phenoxyethanol		0.5
	-Fragrance-		-0.6-
Total			100.0

### ●Method

1. Citric acid is dissolved with a portion of water.
2. Heat B to 80°C, and check the dissolution.
3. Add B to water while stirring and heat to 80°C, Add A in the order described.
4. Cool to r.t. and defoam.

## ◆Safety data

### ■Protein denaturation



Narrowing contributes to reduced protein denaturation

## ◆History

**BEAULIGHT LCA-25F has been used by many major Japanese cosmetic manufacturers for 30 years and there have been no complaints.**

**It is also used in baby-specific products and has a proven track record.**

### ◆IMPORTANT

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