



Capmul[®] S12L

CAS Number: 13557-75-0
INCI name: Sodium Lauroyl Lactylate

EINECS: 236-942-6

Synonyms:

Dodecanoic acid, 2-(1-carboxyethoxy)-1-methyl-2-oxoethyl ester, sodium salt
Sodium Lauroyl Dilactate

Product Type:

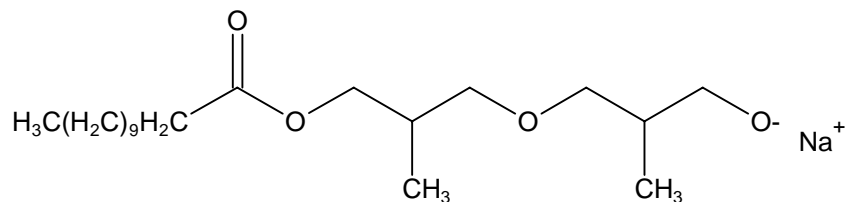
Capmul[®] S12L (Sodium Lauroyl Lactylate) is the product of a condensation reaction of lauric acid and lactylate. This material is similar to the food-grade Sodium Stearoyl Lactylate also made by ABITEC Corporation. **Capmul[®] S12L** is used in personal care both as an emulsifying agent and as a skin and environmentally friendly secondary surfactant with a moisturizing effect due to its re-fattening properties. **Capmul[®] S12L** is ideally suited for use in cleansing formulations where its moisturizing after-feel combined with its solubilization and emulsification properties are best employed.

Specifications:

Specification	Limit	Test Method
Appearance / Form	Liquid to Soft Wax @ 25°C	Visual
Color, Gardner	3 max.	¹ AOCS Td 1a-64
Saponification Value	260 - 300	AOCS Cd 3-25
Acid Value	60 - 100	AOCS Cd 3d-63
Moisture, Karl Fischer	1.0 % max.	AOCS Ca 2e-84
pH (in 10% 50:50 IPA/water)	4.5 - 6	ABITEC Method

¹AOCS: American Oil Chemists' Society

Chemical Structure:



Version: 4

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9/26/2005

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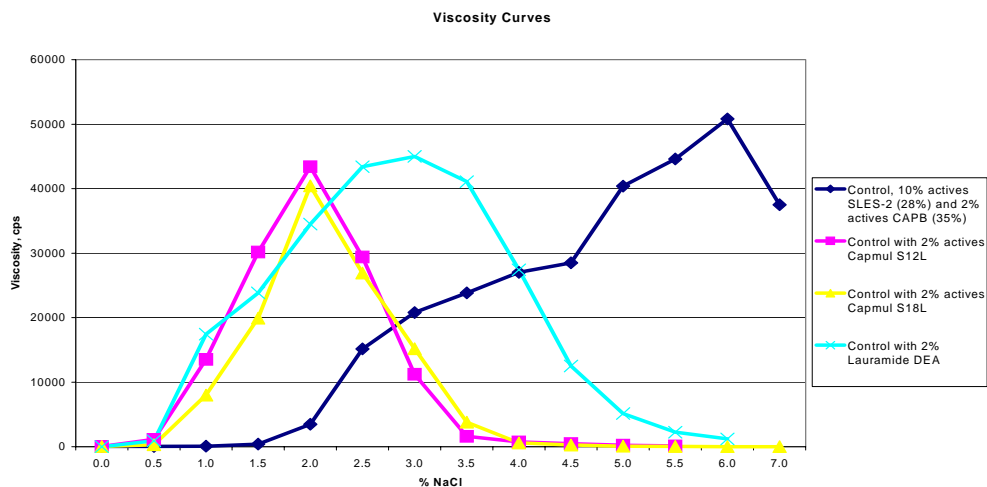


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Typical Properties:

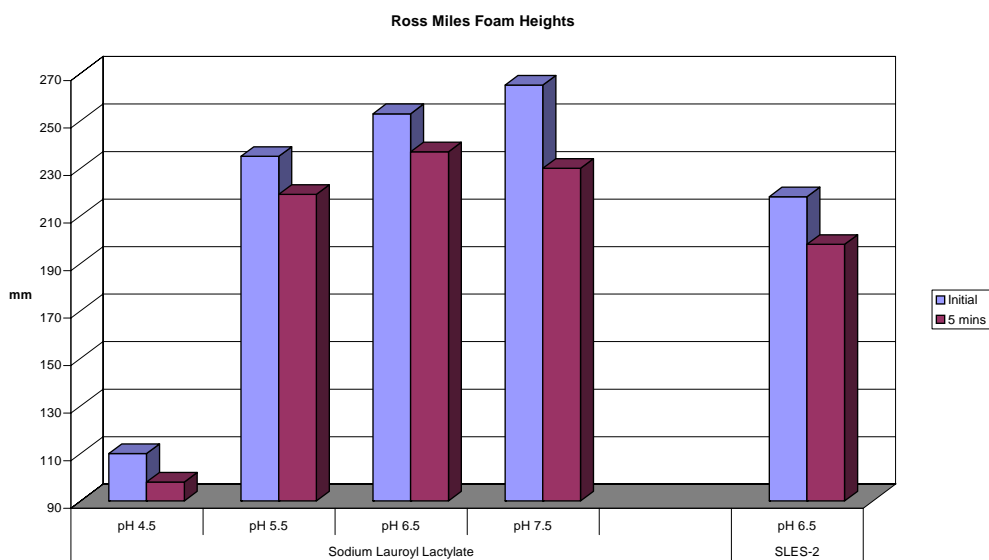
Viscosity profile in an anionic formulation

Graph showing effect of Capmul S12L in blend comprising 10% SLES and 2% CAPB



Effect of pH on Foaming Profile using Ross Miles Test

Individual surfactants tested in 1% solution using standardized equipment





Capmul[®] S12L

Personal Care Applications:

- Water soluble skin moisturizing agent, occlusive agent, solubilizer, leaves a light silky after-feel
- Foaming agent with dense creamy consistency
- Viscosity agent
- Recommended for use in skin care and hair care cleansing products
- Use level: 0.5 - 5.0% (w/w)

Shelf-Life:

Retest and re-qualify 1 year from the date of manufacture.

Storage:

Store in a dry place at ambient temperature.

Standard Package:

- Tank Wagons
- 425 lb. (193 kg) Drums
- 50 lb. (22.7 kg) Pails

The information contained in this bulletin to the best of our knowledge is currently true and accurate. Any recommendations or suggestions are made without warranty or guarantee since, among other reasons, the conditions of storage and use are beyond our control.