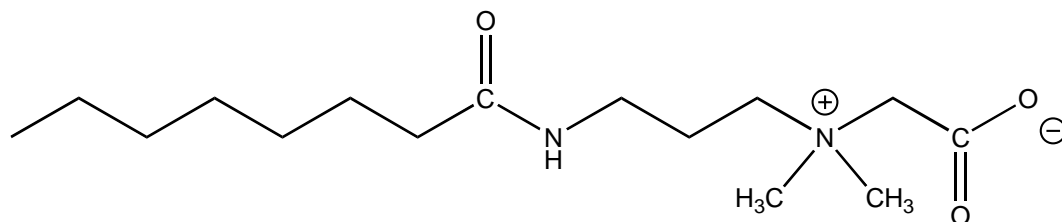


Macat[®] LFB



Capryl/Capramidopropyl Betaine

Overview

MACAT LFB is a 30% active caprylic/capric (C_{8/10}) amidopropyl dimethyl glycine (betaine) in water. LFB is a classic zwitterion surfactant with good detergency and coupling performance, with exceptional mildness to skin.

The exceptional quality of MACAT LFB allows for use in a wide range of markets and applications. In **Personal Care**, LFB is based on the renewable vegetable lipid found in coconut oil, and with its exceptional mildness, LFB is a uniquely natural compliment for use in hair shampoos, conditioners and rinses skin cleansers. Typically, formulations can benefit from the superior coupling performance of LFB for improved detergency, foam stabilizing and ingredient compatibility.

MACAT LFB is biodegradable, and contains no solvents or VOCs. LFB exhibits very low toxicity with an LD₅₀ (Rats) of >5000 mg/kg and at 10% active, causes minimal eye irritation, and not considered a primary dermal irritant.

INCI Name: Capryl/Capramidopropyl Betaine.

Typical Properties

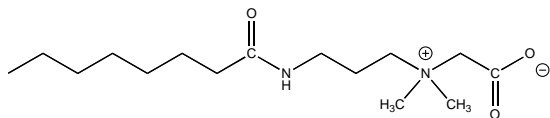
Water solubility	Complete
Physical form	Clear straw colored liquid
Color (Gardner)	1
Actives	30±1.5%
Solids	37±1.5%
Specific gravity (25°C).....	1.04±0.04
pH (10% aq.)	5.5±1.5
Flash point	>200°F (PMCC)
RVOC, U.S. EPA, %	0
Shipping	Non-Red Label

Handling Information

Refer to the Material Safety Data Sheet (MSDS) available from Mason Chemical Company for information on the safe use, handling and disposal of this product.

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Betaines are inner salts, or zwitterions of substituted alkyl derivatives of N, N-dimethyl glycine. Often characterized as amphoteric surfactants, betaines are actually inner salts, or zwitterions, because the quaternary nitrogen atom always carries a positive charge regardless of pH. Mason Chemical Company produces a full range of C₈-C₂₂ alkyl betaines: Macat Ultra CG (coco amidopropyl betaine), and amine oxide surfactants: Macat AO-8 (octyl C₈ dimethyl amine oxide), Macat AO-10 (decyl C₁₀ dimethyl amine oxide), Macat AO-12 (lauryl C₁₂ dimethyl amine oxide), Macat AO-14 (myristyl C₁₄ dimethyl amine oxide) and Macat Ultra CDO (coconut oil derived C₈₋₁₈ amidopropyl dimethyl amine oxide).

MACAT LFB is a 30% active caprylic/capric (C_{8/10}) amidopropyl dimethyl glycine (betaine) in water. LFB is an ultra-mild, yet effective cleansing agent, compatibilizer, and outstanding foam stabilizer useful in a wide range of applications. The formulations below illustrate this effect.

Cleansing Foam

Ingredient	Wt%
Water	79.07
Macat LFB	10.0
Masurf G-2C	1.0
Masamide R-4	0.5
Citric acid.....	0.08
Dye, Fragrance, Preservative	q.s.

Note
Mix in order listed.
INCI Names: Macat LFB (Capryl/Capramidopropyl Betaine), Masurf G-2C (Glycereth-2 Cocoate), Masamide R-4 (PEG-4 Rapeseedamide)