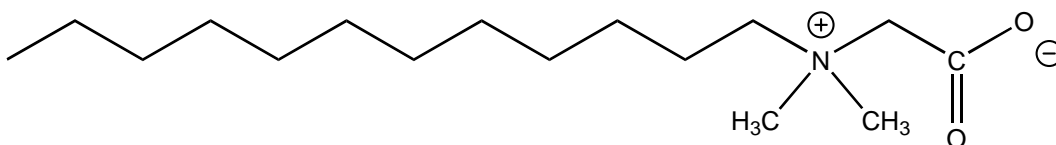


Macat[®] LB/CB/LCB



Lauryl/Cetyl/LaurylCetyl Alkyl Betaines

Overview

MACAT Alkyl Betaines are 40% active lauryl (C₁₂), cetyl (C₁₆), or lauryl/cetyl (C_{12/16}) dimethyl betaines in water. MACAT Alkyl Betaines are classic zwitterion surfactants with good detergency and coupling performance, with exceptional mildness to skin.

The exceptional quality of MACAT Alkyl Betaines allows for use in a wide range of markets and applications. In **Personal Care**, MACAT Alkyl Betaines are based on the renewable vegetable lipid found in coconut oil, and with their exceptional mildness, are uniquely natural compliments for use in hair shampoos, conditioners and rinses skin cleansers. **HI&I Cleaners** formulations can benefit from the superior coupling performance for improved detergency, foam stabilizing and ingredient compatibility.

MACAT Alkyl Betaines are biodegradable, and contains no solvents or VOCs, exhibiting very low toxicity with an LD₅₀ (Rats) of >5000 mg/kg and at 10% active, cause minimal eye irritation, and are not considered primary dermal irritants.

INCI Names/CAS#: Lauryl Betaine/683-10-3, Cetyl Betaine/693-33-4

Typical Properties

	LB	CB	LCB
Water solubility.....	Complete	Complete	Complete
Physical form.....	Liquid	Paste	Liquid
Color (Gardner)	1	1	1
Actives, %.....	40 Minimum	36 Minimum	40 Minimum
Sodium Chloride, %	7.0±1.0	6.0±0.5	7.0±1.0
Specific Gravity @25°C)	1.00±0.04	1.00±0.04	1.00±0.04
pH (10% aq.)	7±1	7±1	7±1
Flash point (PMCC).....	212°F(100°C)	212°F(100°C)	212°F(100°C)
RVOC, U.S. EPA,%.....	0	0	0
DOT Proper Shipping Name	Not Regulated	Not Regulated	Not Regulated

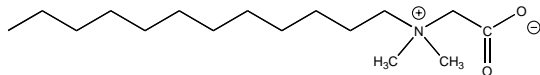
Storage.....Store at 32°F(0°C) to 100°F (38°C)

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.

Macat is a trademark of Mason Chemical Company.

Macat[®] LB/CB/LCB



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 alkylamidopropyl betaines:

Macat Ultra CG (coco amidopropyl betaine)

Macat LFB (caprylic/capric (C_{8/10}) amidopropyl dimethyl betaine);

C₈-C₂₂ alkyldimethyl betaines:

Macat LB (lauryl (C₁₂) dimethyl betaine)

Macat CB (cetyl (C₁₆) dimethyl betaine)

Macat LCB (lauryl/cetyl (C_{12/16}) dimethyl betaine)

C₈-C₂₂ alkylamine oxides:

Macat AO-8 Special (modified octyl C₈ dimethyl amine oxide)

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)

Macat AO-16 (cetyl C₁₆ dimethyl amine oxide)

Macat AO-18:1 (oleyl C_{18:1} dimethyl amine oxide)

Macat AO-22P (behenyl C₂₂ dimethyl amine oxide)

C₈-C₂₂ alkoxyated alkylamine oxides:

Macat AO-12-2 (coco C₁₂ dihydroxyethyl dimethyl amine oxide)

C₈-C₂₂ alkylamidopropylamine oxides:

Macat Ultra CDO (coconut oil derived C₈₋₁₈ amidopropyl dimethyl amine oxide)