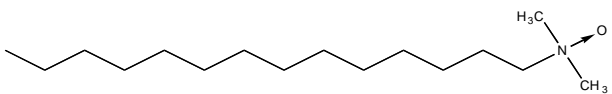
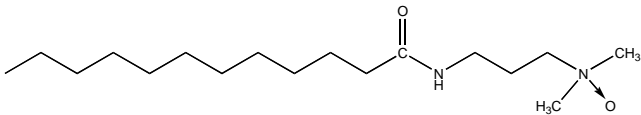
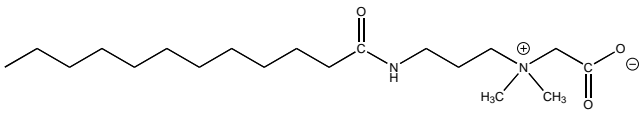
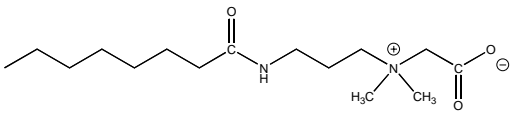
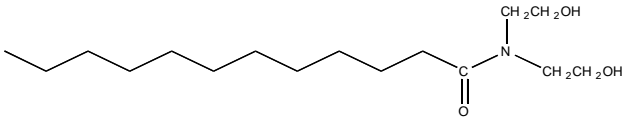
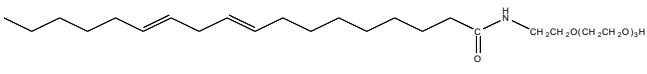
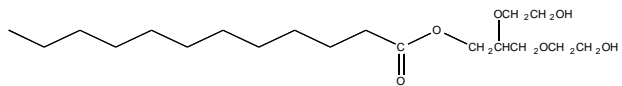


Macat[®], Masurf[®], Masamide[®] & Akypo[®] Foaming and Thickening Surfactants

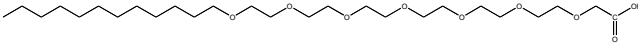
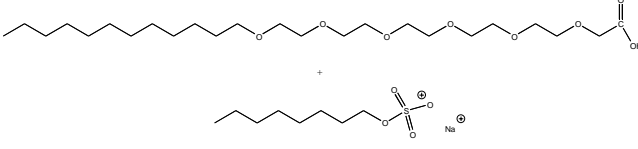
Escape the ordinary with extraordinary product quality and performance. MACAT Amine Oxides and Alkyl Betaines lead the industry in quality and consistency. High production volumes assure availability with attractive pricing. Masamide Alkyl Amides, and Masurf Specialty Wetting agents and Akypo Alcohol Ether Carboxylates bring differentiated performance to nearly any application.

Grade	Structure	Description/Attributes
Macat AO-14		MACAT AO-14 is a 30% active myristyl (C ₁₄) dimethylamine oxide in water. AO-14 is used as a conditioning ingredient in creams and conditioners, and as a foam booster in shampoos. INCI Name: Myristamine Oxide.
Macat Ultra CDO		MACAT Ultra CDO is a 30% active coco (C ₁₂) amidopropyl dimethylamine oxide in water. Ultra CDO is a mild, effective wetting agent, outstanding foam booster and thickener that is acid stable. INCI Name: Cocamidopropylamine Oxide.
Macat Ultra CG		MACAT Ultra CG is a 30% active coco (C ₁₂) amidopropyl betaine in water. Ultra CG is a mild, effective wetting agent, outstanding foam booster and thickener that is acid stable. INCI Name: Cocamidopropyl Betaine.
Macat LFB		MACAT LFB is a 30% active caprylic/capric (C _{8/10}) amidopropyl dimethylamine oxide in water. LFB is a mild, effective wetting agent, outstanding foam stabilizer. INCI Name: Capryl/Capramidopropyl Betaine.

Continued...

Grade	Structure	Description/Attributes
Masamide CO CO-Extra		MASAMIDE CO and CO-Extra are 100% active 1:1 and 2:1 coconut oil diethanolamides. These products are industry standard foam boosting and stabilizing, and thickening agents. INCI Name: Cocamide DEA.
Masamide R-4		MASAMIDE R-4 is a 90% active PEG-4 rapeseedamide in water. R-4 is a unique thickening, foam boosting and stabilizing, and solubilizer, free of diethanolamine and nitrosamine. INCI Name: PEG-4 Rapeseedamide.
Masurf G-2C		MASURF G-2C is a 100% active glycereth-2 cocoate. G-2C is a non-irritating, thickening, foam boosting, stabilizing, solubilizer and emollient, free of diethanolamine and nitrosamine. INCI Name: Glycereth-2 Cocoate.

AKYPO alcohol ether carboxylates are unique multi-functional surfactants with anionic/nonionic surfactant functionality with hypochlorite stability. AKYPOs are shipped as the free acid, for neutralization into a range of products and applications. Performance can be tailored as a function of pH: under acidic conditions, AKYPO functions as a nonionic, under alkaline conditions AKYPO functions as a hard water tolerant anionic.

Grade	Structure	Description/Attributes
Akypo RLM- 45CA		AKYPO RLM-45 CA is recommended for mildness, efficient foaming, wetting and detergency. Use RLM-45 CA in high foaming anionic systems for mildness and oil solubilization. INCI Name: Laureth-6 Carboxylic Acid.
Akypo TFC-S		AKYPO TFC-S is recommended for efficient foaming, wetting and detergency with hypochlorite stability. Take advantage of the hypochlorite stability of TFC-S in thickened bleach formulas and specialty cleaners. INCI Name: Laureth-5 Carboxylic Acid + Sodium Octyl Sulfate

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