

Mackamide[®] CMA

INCI: Cocamide MEA

Product description

Mackamide CMA is a 1:1 coconut monoethanolamide, which is designed for use in household and cosmetic preparations. Mackamide CMA will help enhance the viscosity response of the formulation while also stabilizing the foam. Mackamide CMA has very low residual free amine and is a suitable replacement for diethanolamides.

Principle uses

Personal care

| | |
|----------------|-----------|
| Shampoos | 2% - 4% |
| Body Wash | 1% - 4% |
| Skin Cleansers | 0.5% - 2% |
| Bubble Bath | 1% - 2% |

Industrial, Home & Hygiene

| | |
|----------------------------|----------|
| Dish Wash | 4% - 6% |
| Dishwash Blocks | 8% - 10% |
| Drop-In Toilet Bowl Blocks | 8% - 12% |
| Powder Detergents | 8% - 12% |

Specifications

| <u>Test</u> | <u>Result</u> | <u>Method</u> |
|---------------------------------|------------------|---------------|
| Appearance @ 25°C | Waxy flake | 100C |
| Infrared Spectrum | Matches Standard | 542A |
| pH (1% Solution) | 9.0 – 11.0 | 146B |
| Melting Point, Fisher Johns, °C | 61.0 – 64.0 | 136A |
| Gardner Color @ 70 °C | 4 Max | 104P |
| Acid Value | 2.0 Max | 200A |
| Ester, % | 3.0 Max | 530A |
| Monoethanolamine, % | 1.5 Max | 274C |
| Free Fatty Acid, (MW 200), % | 2.0 Max | 200M |
| Glycerin, % | 7.0 – 12.5 | 366C |

Typical properties

| | |
|---------------------------|---------|
| Specific Gravity, @ 60°C | 0.97 |
| Total Plate Count (CFU/g) | < 10 |
| Gram Negative Bacteria | Absent |
| Ester, CTFA | < 3 |
| Melt Point, °C | 61 – 64 |
| Preservative | None |

Storage and handling

Mackamide CMA should be stored in sealed containers below 30°C in a dry place out of direct sunlight. Handle between 25°C – 35°C.

Formulation tips

- Add in the beginning of process with heat stable ingredients
- Request heating to 75°C to incorporate
- Avoid prolonged exposure to heating as this may lead to degradation
- Mix until dissolved before cooling or molding
- Compatible with anionic, cationic, amphoteric, and nonionic surfactants

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