

CAPMUL® GMO-50

Ingredients: Glyceryl monooleate, TBHQ^a and Citric Acid^a

INCI Name: Glyceryl oleate

Synonyms: Monoolein; Glycerol oleate

Description

Capmul GMO-50 (Glyceryl Monooleate) is a mixture of monoglycerides, mainly glyceryl monooleate, together with variable quantities of diglycerides and triglycerides. It is obtained by esterification of glycerol with food-grade oleic acid of vegetable origin, or by partial glycerolysis of vegetable oil that consists mainly of triglycerides of oleic acid. A suitable antioxidant may be added. Capmul GMO-50 is a multi-functional emulsifier useful in the production of cosmetics, pharmaceuticals, food and plastic products.

Specifications

Specification	Limit	Reference Test Method
Color, Gardner	≤3	¹ AOCS TD 1a-64
Acid Value (mg KOH/g)	≤2.5	AOCS Cd 3d-63
Saponification Value (mg KOH/g)	160-175	AOCS Cd 3-25
a-Mono-glycerides, as Oleate (%)	≥50	AOCS cd 11-57
Free Glycerol (%)	≤5.0	AOCS Ca 14-56
Water (%)	≤1.0	AOCS Ca 2e-84

¹AOCS: American Oil Chemists' Society

Typical Properties

Property	Range
Appearance/Form (@ 25 °C/77 °F)	Yellow semi-solid
HLB – Calculated	3-4

Applications

- Emulsifier and Emollient
- Lotions and Creams
- Eyeliners and Lipsticks

Regulatory

- Generally recognized as safe (GRAS) according to 21 CFR § 184.1505 and 21 CFR § 184.1323

Recommended Storage and Handling

- Store in a dry location at ambient temperatures
- Preserve in tight containers
- Protect from light
- Retest/requalify 24 months after date of manufacture

Recommended Heating Instructions

- Heat to 50°C and mix thoroughly before use
- Store at room temperature in a closed container

Standard Packaging

- 400 lb (182 kg) drum
- 50 lb (22.7 kg) jerrican

^a Added as antioxidants: 0.02% TBHQ and 0.003% Citric Acid

DISCLAIMER:

PLEASE NOTE: This specification is provided for information purposes only and should not be relied upon as a basis for product performance. It is suggested that you evaluate the product on at least a laboratory basis prior to its commercial usage. This specification may be superseded by a later issue. Please consult your sales representative to confirm that you have the correct specification. NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A SPECIFIC USE OR PURPOSE, EXPRESS OR IMPLIED, ARE MADE. These specifications are not intended to be, and shall not be construed to be, instructions or suggestions for use which may be in violation of valid patent rights.