

CAS Numbers: 65381-09-1, 73398-61-5
INCI name: Caprylic/Capric Triglyceride

EINECS Numbers: 265-724-3, 277-452-2

Synonyms:

Medium Chain Triglycerides (MCT)
Glycerol Caprylate Caprate
Octanoic / Decanoic Acid, Triglycerides

Product Description:

Captex 300 is also known as Medium Chain Triglycerides (MCT) and is manufactured by the esterification of fractionated fatty acids (mainly caprylic and capric) and glycerin. **Captex 300** is prepared from food-grade, raw materials of vegetable origin. It is fully refined, bleached and deodorized and is miscible with most organic solvents including 95% ethanol.

Specifications:

Specification	Limit	Reference Test Method
Appearance/Form	Light Yellow/Clear Liquid	Visual
Odor	Neutral	Sensory
Acid Value (mg KOH/g)	0.1 max.	¹ AOCS Cd 3d-63
Color, APHA	100 max.	Tintometer PFX 990
Saponification Value (mg KOH/g)	335-360	AOCS Cd 3a-94
Moisture, KF	0.1 % max.	AOCS Ca 2e-84

¹AOCS: American Oil Chemists' Society.

Typical Properties:

Specific Gravity @ 77°F (25°C)	0.92 - 0.96	² USP
Viscosity, cP @ 77°F (25°C)	20 - 25	Brookfield
Cloud Point	28°F or less	AOCS Cc 6-25

²USP: United States Pharmacopeia.

Typical Fatty Acid Distribution by GLC:

6:0 Caproic Acid.....	6.0% max.
8:0 Caprylic Acid.....	55.5-85.0%
10:0 Capric Acid.....	15.0-40.0%
12:0 Lauric Acid.....	4.0% max.

Toxicology Information:

Test	Result
Oral LD ₅₀ :	> 36 ml/kg in rats > 25 ml/kg in mice
Draize Skin Test:	No or slight irritation potential
Buehler Sensitization:	No reaction
Human Skin Patch Tests (undiluted sample):	No perceptible skin alteration
Human Mucous Membrane Tests (undiluted sample):	No eye irritation

Personal Care Applications:

- Skin conditioning agent, occlusive agent, solubilizer, leaves a light silky after-feel
- Recommended for use in skin care products, lipsticks, and foundations
- Use level: 0.5-5.0% (w/w)

Solubility Data:

The following materials are soluble at 50% (w/w) in **Captex 300** at room temperature:

- Vitamin E Acetate
- Spanish Rosemary Oil
- Eucalyptus Oil
- Menthol

Hydrophilic/Lipohilic Balance:

The required HLB of **Captex 300** is 11 using surfactant blends of sorbitan laurate and Polysorbate 20.

Shelf-Life:

Retest and re-qualify 3 years from the date of manufacture.

Storage:

Store in a dry place at ambient temperature.

Standard Package:

Tank wagon
425 lb. (192.8 kg) drum
50 lb. (22.7 kg) pail

Version: 10

2 of 2

7/13/07

The information contained in this bulletin is, to the best of our knowledge, true and accurate. Any recommendations or suggestions are made without warranty or guarantee since the conditions of storage and use are beyond our control.