

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

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

Synonyms:

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

Product Type:

Captex 355, a medium-chain triglyceride or MCT, is manufactured by the esterification of glycerin and fatty acids (mainly caprylic and capric) which originate from coconut and/or palm kernel vegetable sources. **Captex 355** is prepared from food-grade raw materials and does not have any added antioxidants or preservatives. It is fully refined and deodorized and is miscible with most organic solvents including 95% ethanol. **Captex 355** also carries Kosher certification.

Specifications:

Specification	Limit	Reference Test Method
Appearance/Form at 25 °C	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)	325 - 340	AOCS Cd 3a-94
Iodine Value, Calculated (cg I ₂ /g)	0.5 max.	² USP <401>
Moisture, Karl Fischer (%)	0.1 max.	AOCS Ca 2e-84
Hydroxyl Value (mg KOH/g)	10.0 max.	AOCS Cd 13-60

¹AOCS: American Oil Chemists' Society

²USP: United States Pharmacopeia

Typical Properties:

Specific Gravity @ 77 °F (25 °C)	0.92 - 0.96	USP
Viscosity, cP @ 68 °F (20 °C)	25 - 33	Brookfield
Cloud Point	23 °F or less	AOCS Cc 6-25

Typical Fatty Acid Distribution by GLC:

6:0 Caproic Acid.....	6 % max.
8:0 Caprylic Acid.....	50-75 %
10:0 Capric Acid.....	22-45 %
12:0 Lauric Acid.....	4 % max.

Version: 7

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9/29/06

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

Regulatory:

- Drug Master File (DMF) 1939

Pharmaceutical and Nutritional Applications :

- Carrier (vehicle)
- Solubilizer
- Lubricant
- Emollient (topical formulations)
- Energy Source
- Viscosity Modifier

Shelf-Life:

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

Storage:

Store in a dry location at ambient temperature.

Standard Package:

Tank wagon
425 lb. (193 kg) drum
50 lb. (22.7 kg) pail