




IMWITOR® 742

INCI: Caprylic/Capric Glycerides

-  Dispersing agent
-  Penetration enhancer
-  Support preservation systems

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1. Description:

IMWITOR® 742 is a blend of mono-, di- and triglycerides, mainly of caprylic (C₈H₁₆O₂) and capric acid (C₁₀H₂₀O₂). Glycerol and fatty acids are derived from vegetable source.

IMWITOR® 742 is a white-yellowish, crystalline mass with a slight odor of coconut and a fatty, scratchy and bitter taste. IMWITOR® 742 melts at about 25°C to form an oily, yellowish liquid.

IMWITOR® 742 contains no unsaturated components and is thus stable against oxidation even at elevated temperatures (f.i. 60°C, 14d).

2. Chemical and Physical Properties:

Tests	Value	Unit
Acid value	max. 2	mg KOH/g
Saponification value	250 - 280	mg KOH/g
Iodine colour value	max. 6	mg I ₂ /100 ml
Peroxide value	max. 1	mequi O/kg
Water content	max. 0,5	%
Monoglyceride	45,0 – 55,0	%
Diglyceride	20,0 – 50,0	%
Triglyceride	max. 10,0	%
Free glycerol	max. 2	%
Heavy metals	max. 10	ppm
Arsenic	max. 3	ppm
Alk. reacting substances	max. 0,30	ml 0,01M HCl/2 g
Hydroxyl value	310 – 340	mg KOH/g
Unsaponifiable matter	max. 0,5	%
Ash	max. 0,1	%
Iodine value	max. 1	mg I ₂ /100 mg
Caproic acid (C6:0)	max. 3,0	%
Caprylic acid (C8:0)	50,0 – 90,0	%
Capric acid (C10:0)	10,0 – 50,0	%
Lauric acid (C12:0)	max. 3,0	%
Myristic acid (C14:0)	max.1,0	%
Palmitic acid (16:0)	max. 0,1	%
Stearic Acid (C18:0)	max. 0,1	%
Organic Volatile Impurities	meets USP requirements	

bold values are provided on labels

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3. Application:



IMWITOR® 742 is readily soluble in diethyl ether, n-hexane, ethanol and very slightly soluble in water (about 10 %). It is miscible with all fats and oils.




Cosmetic Functions:

IMWITOR® 742 can be used in cosmetic formulations as a co-emulsifier for O/W creams and lotions. It is also suitable as a dispersant for active ingredients in anti-acne creams. Because of its bacteriostatic properties IMWITOR® 742 is able to support preservation systems.

Thus IMWITOR® 742 use is suggested for:

-  Facial masks
-  Facial cleansing
-  Shower gels
-  Sun care
-  Lip cosmetics

-  multitainer with 25 kg
-  drum with 190 kg

-  Protect from light and moisture
-  At temperature below 25°C
-  Shelf life 3 years

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