




IMWITOR® 308

INCI: Glyceryl Caprylate

-  Hydrating and refatting
-  Adsorption enhancer
-  Support preservation systems

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1. Description:

IMWITOR® 308 is a blend of glycerol esters of caprylic acid. The content of monoester is min. 80.0%. Glycerol and caprylic acid are derived from vegetable sources.

2. Chemical and Physical Properties:

Tests	Value	Unit
Acid value	max. 3.0	mg KOH/g
Saponification value	245 – 265	mg KOH/g
Water content	max. 1.0	%
Monoglycerides	min. 80.0	%
Diglycerides	max. 20.0	%
Triglycerides	max. 5.0	%
Free Glycerol	max. 3.0	%
Heavy metals	max. 10	ppm
Arsenic	max. 3	ppm
Hydroxyl value	450 – 550	mg KOH/g
Ash	max. 0.1	%
Iodine value	max. 1	mg I/100mg
Melting point	30 - 34	°C
Caproic acid (C6:0)	max. 1.0	%
Caprylic acid (C8:0)	min. 90.0	%
Capric acid (C10:0)	max. 10.0	%
Lauric acid (C12:0)	max. 1.0	%
Myristic acid (C14:0)	max. 0.5	%
Residual Solvents	meets USP requirements	

bold values provided on labels

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3. Application:

White, solid, crystalline mass with a faint fatty odor and a very bitter, scratchy taste. Readily soluble both in lipophilic media such as MIGLYOL®, vegetable oils, diethyl_ether, n-hexane and in polaric solvents such as ethanol and PEG 400. Insoluble but dispersible in excess of water.

As single substance IMWITOR® 308 has a highly tendency to crystallisation.






Cosmetic Functions:

The partial glyceride IMWITOR® 308 is known to be multifunctional, acting as a co-emulsifier, solublizing agent, dispersion adjuvant, plasticizer, lubricant, consistency regulator, penetration enhancer, refatting agent, active ingredient carrier, and absorption promoter.

Because of its bacteriostatic properties IMWITOR® 308 is able to support preservation systems.

In the presence of water it builds liquid crystalline phases and vesicles. 20% of water in IMWITOR® 308 forms a clear, low viscous liquid, 50% water forms a translucent gel. In the presence of surfactants, IMWITOR® 308 can show thickening effects.

Thus IMWITOR® 308 use is suggested for:

-  Neck-/ Facial Care
-  Body Care
-  Shower products
-  Deodorants
-  Sun Care

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containers with 25kg

- Store in a dry place below 25°C
- Protect from light
- Shelf life 3 years

April 2012

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