




IMWITOR® 948

INCI: Glyceryl Oleate

-  Non-ionic emulsifier
-  Skin conditioning
-  Moisturizing

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1. Description:

IMWITOR® 948 is manufactured by esterification of plant derived glycerol with vegetable sourced fatty acids, chiefly oleic acid. It is a mixture of the glycerides of oleic acid and other fatty acids, consisting mainly of the monooleate. IMWITOR® 948 contains 0,09 % of antioxidant OxyneX® L. IMWITOR® 948 is an amber-colored, oily liquid which can partly solidify at room temperature.

2. Chemical and Physical Properties:

Tests	Value	Unit
Acid value	max. 6.0	mg KOH/g
Iodine value	65.0 – 95.0	mg I/ 100 mg
Peroxide value	max. 12.0	mequi O/kg
Saponification value	150 – 170	mg KOH/g
Free Glycerol	max. 6.0	%
Water	max. 1.0	%
Total ash	max. 0.1	%
Composition of fatty acids		
Palmitic acid	max. 12.0	%
Stearic acid	max. 6.0	%
Oleic acid	min. 60.0	%
Linoleic acid	max. 35.0	%
Linolenic acid	max. 2.0	%
Arachidic acid	max. 2.0	%
Eicosanoic acid	max. 2.0	%
Assay		
Monoacylglycerols	32.0 – 52.0	%
Diacylglycerols	30.0 – 50.0	%
Triacylglycerols	5.0 – 20.0	%

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3. Application:

IMWITOR® 948 is soluble in chloroform, ethanol, diethyl ether, mineral oil, vegetable oil and MCT oils (MIGLYOL® 812 N).







IMWITOR® 948 is used in topical formulations as an emollient and as a co-emulsifying agent for water-in-oil emulsions. It is also a stabilizer for oil-in-water emulsions.



IMWITOR® 948 is incompatible with strong oxidizing agents.




It is a polar lipid that swells in water exhibiting several phases with different rheological properties. IMWITOR® 948 also gels in excess of water, forming a highly ordered cubic phase which can be used to sustain the release of various water soluble ingredients.

Cosmetic Functions:

Thus IMWITOR® 948 use is suggested for:

-  Shower gels
-  Shampoos
-  Facial Cleansing
-  Hand washes
-  Bath additives
-  Body and face care

 multitainer with 25 kg
 drum with 190 kg

-  Store at a dry and cold place
-  Protect from light
-  Shelf life 2 years

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