



MIGLYOL® 818, 829

INCI:

MIGLYOL® 818: Caprylic/Capric/Linoleic Triglyceride

MIGLYOL® 829: Caprylic/Capric/Succinic Triglyceride



Non-greasy emollient



Medium to low spreadability



Good absorption on skin

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1. Description:

MIGLYOL® 818

MIGLYOL® 818 is a triglyceride of the fractionated C₈ and C₁₀ plant fatty acids. It contains about 4 to 5 % linoleic acid.

For special skin effects, triglycerides with a defined amount of double unsaturated fatty acids are used in cosmetics.

MIGLYOL® 829

MIGLYOL® 829 is a glycerin ester of the fractionated C₈ and C₁₀ plant fatty acids, combined with succinic acid. The viscosity is about 230 mPa·s.

Because of its high density of 1.00 – 1.02 g/cm³ MIGLYOL® 829 promotes stability in emulsions.

MIGLYOL® neutral oils are clear, virtually colorless liquids of neutral odor and taste.

MIGLYOL® neutral oils are very pure because of their carefully selected raw materials. As a result of tightly controlled manufacturing process, they contain very few microorganisms and are free of additives such as antioxidants, solvents and catalyst residues (Exception: MIGLYOL® 818, which contains an antioxidant).

They have an high stability against oxidation (Exception: MIGLYOL® 818 contains about 4 % linoleic acid) and are liquid at 0°C.

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2. Chemical and Physical Properties:

Tests	Value		Units
	MIGLYOL® 818	MIGLYOL® 829	
Clarity and opalescence	complies	complies	
Coloration	complies	complies	
Acid value	max. 0.2	max. 1	mg KOH/g
Iodine value	max. 10	max. 1	mg I/100 mg
Saponification value	315 – 335	400 – 430	mg KOH/g
Peroxide value	max. 5	max. 1 *	mequi O/kg
Hydroxyl value	max. 10	max. 15	mg KOH/g
Color #	max. 150	max. 200	APHA
Water	max. 0.1	max. 0.25	%
Refractive index	1.450 – 1.453	1.456 – 1.459	n20D
Density at 20°C	0.93 – 0.95	1.00 – 1.02 *	g/cm ³
Viscosity at 20°C	30 – 35 *	230 – 270 *	mPa·s
Alkaline reactive substances	max. 0.15 *	max. 0.15 *	ml 0.01N HCl/2.00g
Heavy metals	max. 10 *	max. 10 *	mg/kg
Total ash	max. 0.2 *	max. 0.2 *	%
Unsaponifiable matter	max. 0.3	max. 0.5 *	%
Caproic acid (C6:0)	max. 2 *	max. 2 *	
Caprylic acid (C8:0)	45 – 65 *	45 – 55 *	
Capric acid (C10:0)	30 – 45 *	30 – 40 *	
Lauric acid (C12:0)	max. 3 *	max. 3 *	
Myristic acid (C14:0)	max. 1 *	max. 1 *	
Linoleic acid (C18:2)	2 – 5 *	-	
Succinic acid	-	15 – 20 *	

* not included in Certificate of Analysis, but checked randomly

For better differentiation the colour is expressed as APHA. The limit of max. 100 is far below the limit of the Y3 reference solution as indicated in the Ph.Eur. 2.2.2, method I.

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3. Application:





MIGLYOL® neutral oils are soluble at 20°C in the following solvents:

hexane, toluene, diethyl ether, ethyl acetate, acetone, isopropanol, and ethanol 96%.

Neutral oils are miscible in all ratios with paraffin hydrocarbons and natural oils.

Cosmetic Functions:

MIGLYOL® neutral oils have the following advantages in comparison to natural oils:

-  Excellent spreadability on the skin and good skin absorption.
-  Do not inhibit skin-respiration.
-  Excellent penetration-promoting, emollient and skin-smoothing properties.
-  Very good solubility characteristics.

Skin care cosmetics:

Creams and lotions:	Non-greasy emollient oil components with medium spreadability.
Compared with petrolatum and mineral oil:	They are skin-permeable, do not obstruct natural skin respiration.
Skin, face and baby oils:	Non-oxidizing, penetration-enhancing lipid bases.
Massage oils:	Low-viscosity oil bases with excellent spreadability.
Masks:	Emollient skin care additives.

Decorative Cosmetic:

Make-Up, sticks, mascara:	Dispersing oil component, compatible with pigments.
Makeup remover:	Disperses pigments and acts as a solubilizer.





Cleansing cosmetics:

Two-phase foam baths:	Fat component, readily miscible with natural oils and surfactants.
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Sunscreens:

O/W sunscreen creams:	Oil component, compatible with organic and inorganic filter agents.
W/O sunscreen creams, sunscreen oils:	Water-resistant oil components, less greasy, do not obstruct skin respiration.

Thus MIGLYOL® 818, 829 use is suggested for:

-  Color cosmetics
-  Body care
-  Facial care
-  Hair care
-  Sun care

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Formulation Guide:

Phase Change O/W Emulsion		555
Phase A		
IMWITOR® 375 ¹	Glyceryl Citrate/Lactate/ Linoleate/Oleate	3,00
IMWITOR® 600 ¹	Polyglyceryl-3 Polyricinoleate	1,00
MIGLYOL® 818 ¹	Caprylic/Capric/Linoleic Triglyceride	5,00
MIGLYOL® 812 N ¹	Caprylic/Capric Triglyceride	4,50
CremerAL 1618 50/50 ¹	Cetearyl Alcohol	3,00
SOFTIGEN® 701 ¹	Glyceryl Ricinoleate	1,50
SOFTISAN® 649 ¹	Bis-Diglyceryl Polyacyladipate-2	2,00
SOFTISAN® 142 ¹	Hydrogenated Coco-Glycerides	3,00
CremerOIL Sunflower Oil ¹	Helianthus Annuus Seed Oil	6,00
Cetiol MM ²	Myristyl Myristate	1,00
Bees Wax	Cera Alba	0,50
Phase B		
Natrosol Plus 330 CS ³	Cetyl Hydroxy Ethyl Cellulose	0,45
CremerGLYC ¹	Glycerine	6,00
Preservatives		q.s.
Demin. Aqua	Aqua	ad 100,00
Phase C		
Tocopherol		0,50
Fragrance	Fragrance	q.s.
Phase D		
Sodium Hydroxide 10% in water	Sodium Hydroxide	q.s.

Procedure:

1. Heat Phase A and B separately to approx. 75-80 °C.
2. Add Phase A to Phase B with stirring. Homogenize.
3. Cool Phase A/B with gentle stirring to approx. 30 °C.
4. Add Phase C to the emulsion.
5. Adjust pH value with Phase D to 6,0 - 6,5.

Supplier References:





¹Cremer Care





² BASF Personal Care and Nutrition GmbH

³ Hercules Inc.

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-  multitainer with 25 kg
-  drum with 190 kg
-  container with 950 kg
-  road tanker

-  Store at temperature below 25°C
-  Protect from light and moisture
-  Shelf life for MIGLYOL® 818: 1 year
-  Shelf life for MIGLYOL® 829: 3 years

March 2013

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