

Lipid Excipients for Drug Delivery

Product Catalogue

Oral

Topical

Rectal

Vaginal

Parenteral

Product description

Excipient name	Definition / description	Form	Melting point (°C)	HLB
Apifil®	PEG-8 beeswax	Pellets	59 - 70	9
Capryol™ 90	Propylene glycol monocaprylate (Type II, monoesters >90%) NF	Liquid	/	5
Capryol™ PGMC	Propylene glycol monocaprylate (Type I, monoesters >55%) NF	Liquid	/	6
Compritol® 888 ATO	Glycerol dibehenate EP / Glyceryl dibehenate NF / Glyceryl behenate Ch.P.	Powder	65 - 77	1
Compritol® 888 Pellets	Glycerol dibehenate EP / Glyceryl dibehenate NF / Glyceryl behenate Ch.P.	Pellets	65 - 77	1
Compritol® HD 5 ATO	Behenoyl polyoxyl-8 glycerides NF	Powder	60 - 67	5
Emulcire™ 61 WL 2659 Pellets	Mixture of cetyl alcohol EP/NF and ethoxylated fatty alcohols (Ceteth-20, Steareth-20) EP/NF	Pellets	46.5 - 50.5	10
Geleol™ Mono and Diglycerides NF	Glycerol monostearate 40-55 (type I) EP / Mono and diglycerides NF	Pellets	54 - 64	3
Geloi™ SC	Mixture of refined soybean oil EP/NF, glyceryl distearate EP/NF and polyglyceryl-3 dioleate NF	Viscous gel	/	5
Gelot™ 64	Mixture of glycerol monostearate EP/NF and PEG-75 stearate (type I) NF	Pellets	55.5 - 62.5	10
Gelucire® 43/01	Hard fat NF/EP/JPE	Pellets	42 - 46	1
Gelucire® 44/14	Lauroyl macrogol-32 glycerides EP / Lauroyl polyoxyl-32 glycerides NF	Block	42.5 - 47.5	11
Gelucire® 48/16	PEG-32 stearate (type I) NF / EP pending	Pellets	46 - 50	12
Gelucire® 50/13	Stearoyl macrogol-32 glycerides EP / Stearoyl polyoxyl-32 glycerides NF	Pellets	46 - 51	11
Labrafac™ Lipophile WL 1349	Triglycerides medium-chain EP / Medium-chain triglycerides NF / Medium chain fatty acid triglyceride JPE	Liquid	/	1
Labrafac™ PG	Propylene glycol dicaprylocaprate EP Propylene glycol dicaprylate/dicaprate NF	Liquid	/	1
Labrafil® M 1944 CS	Oleoyl macrogol-6 glycerides EP / Oleoyl polyoxyl-6 glycerides NF	Liquid	/	9
Labrafil® M 2125 CS	Linoleoyl macrogol-6 glycerides EP / Linoleoyl polyoxyl-6 glycerides NF	Liquid	/	9
Labrafil® M 2130 CS	Lauroyl macrogol-6 glycerides EP / Lauroyl polyoxyl-6 glycerides NF	Block	33 - 38	9
Labrasol®	Caprylocaproyl macrogol-8 glycerides EP Caprylocaproyl polyoxyl-8 glycerides NF	Liquid	/	12
Labrasol® ALF	Caprylocaproyl macrogol-8 glycerides EP Caprylocaproyl polyoxyl-8 glycerides NF	Liquid	/	12
Lauroglycol™ 90	Propylene glycol monolaurate (Type II, monoesters >90%) EP / NF	Liquid	/	3
Lauroglycol™ FCC	Propylene glycol monolaurate (Type I, monoesters >45%) EP / NF	Liquid	/	5
Maisine® CC	Glycerol monolinoleate EP / Glyceryl monolinoleate NF	Liquid	/	1
Monosteol™	Propylene glycol monopalmitostearate EP	Pellets	33 - 40	4
Ovucire® range	Mixture of Hard fat EP / NF / JPE with additives	Pellets	32 - 34	/
Peceol™	Glycerol monooleates (type 40) EP / Glyceryl monooleate (type 40) NF	Liquid	/	1
Plurol® Diisostearique	Triglycerol diisostearate EP / Polyglyceryl-3 diisostearate NF	Liquid	/	4.5
Plurol® Oleique CC 497	Polyglyceryl-3 dioleate NF	Liquid	/	3
Precirol® ATO 5	Glycerol distearate (type I) EP / Glyceryl distearate NF	Powder	50 - 60	2
Sedefos™ 75	Mixture of triceteareth-4 phosphate and ethylene glycol stearate EP/NF/JPE (and) diethylene glycol stearate EP/NF/JPE	Pellets	47 - 52	10
Suppocire® range	Hard fat EP/NF/JPE/Ch.P.	Pellets	33 - 45	/
Tefose® 1500	Mixture of PEG-6 stearate (type I) NF / EP pending and PEG-32 stearate (type I) NF / EP pending	Block	40.4 - 44.4	10
Tefose® 63	Mixture of PEG-6 stearate (type I) NF / EP pending and ethylene glycol palmitostearate EP/NF/JPE (and) PEG-32 stearate (type I) NF / EP pending	Block	46 - 53	9.5
Transcutol® HP	Highly purified diethylene glycol monoethyl ether EP/NF	Liquid	/	/
Transcutol® P	Highly purified diethylene glycol monoethyl ether EP/NF	Liquid	/	/
Transcutol® V - Veterinary	Highly purified diethylene glycol monoethyl ether EP/NF	Liquid	/	/

Functionalities and routes of administration

Route of administration	Oral							Topical					Rectal
Functionality	Bioavailability enhancement	Sustained release	Lubricant	Taste-masking	API protection	Vehicle for capsule	Solvent	Oily vehicle	Emulsifier	Solubilizer	Solvent	Thickener	Vehicle
Apifit®									•				
Capryol™ 90	•									•			
Capryol™ PGMC	•									•			
Compritol® 888 ATO		•	•		•								
Compritol® 888 Pellets												•	
Compritol® HD 5 ATO			•										
Emulcire™ 61 WL 2659 Pellets									•				
Geleol™ Mono and Diglycerides NF		•		•	•							•	
Geloil™ SC					•	•							
Gelot™ 64									•				
Gelucire® 43/01					•							•	
Gelucire® 44/14	•												
Gelucire® 48/16	•												
Gelucire® 50/13	•												
Labrafac™ Lipophile WL 1349	•					•		•					
Labrafac™ PG								•					
Labrafil® M 1944 CS	•									•			
Labrafil® M 2125 CS	•												
Labrafil® M 2130 CS										•			
Labrasol®										•			
Labrasol® ALF	•												
Lauroglycol™ 90	•									•			
Lauroglycol™ FCC										•			
Maisine® CC	•												
Monosteol™												•	
Ovucire® range													•
Peceol™	•							•					
Plurol® Diisostearique									•				
Plurol® Oleique CC 497	•									•			
Precirol® ATO 5		•	•	•									
Sedefos™ 75									•				
Suppocire® range													•
Tefose® 1500									•				
Tefose® 63									•				
Transcutol® HP	•						•						
Transcutol® P										•	•		
Transcutol® V - Veterinary	•						•			•	•		

Regulatory information and precedence of use

Excipient name	NF Pharmacopoeia	EP Pharmacopoeia	JPE Pharmacopoeia	Drug Master File	Handbook of Pharmaceutical Excipients	GRAS Status	Precedence of use of the chemical entity (Examples; not exhaustive)				
							FDA IID	USA / Canada	Europe	Japan	Other countries
Apifil®				● ³					Topical		Topical
Capryol™ 90	●			●	● ¹			Oral / Topical	Oral / Topical / Veterinary	Oral	Topical / Veterinary
Capryol™ PGMC	●			●	● ¹				Oral OTC		
Compritol® 888 ATO	●	●		●	●	●	●	Oral	Oral / Ocular	Oral	Oral
Compritol® 888 Pellets	●	●		●	●	●	●		Topical / Vaginal		Topical / Rectal / Vaginal
Compritol® HD 5 ATO	●			● ³				Oral OTC	Oral OTC		Oral OTC
Emulcire™ 61 WL 2659 Pellets	●	●							Topical		Topical
Geleol™ Mono and Diglycerides NF	●	●		●	●	●	●	Oral / Topical / Rectal / Vaginal	Oral / Topical / Vaginal	Oral / Topical	Oral / Topical
Geloi™ SC	●				●		●	Dietary supplements			Dietary supplements
Gelot™ 64	●			● ³	●		●	Topical	Topical		Topical
Gelucire® 43/01	●	●	●	●	●		●	Oral			
Gelucire® 44/14	●	●		●	●		●	Oral	Oral	Oral	Oral / Nasal
Gelucire® 48/16	●	● ¹		●	●		●	Topical	Topical		
Gelucire® 50/13	●	●		●	●		●	Oral	Oral		
Labrafac™ Lipophile WL 1349	●	●	●		●		●	Oral / Topical / Injectable / Ophthalmic / Sublingual	Oral / Topical / Vaginal / Injectable / Ophthalmic / Sublingual / Veterinary	Oral / Topical	Oral / Topical / Injectable / Ophthalmic / Veterinary
Labrafac™ PG	●	●			● ¹		●		Oral		Veterinary
Labrafil® M 1944 CS	●	●		●	●		●	Topical / Rectal / Vaginal / Nasal / Veterinary	Oral / Topical / Rectal / Vaginal / Nasal / Veterinary		Oral / Topical / Rectal / Vaginal
Labrafil® M 2125 CS	●	●		●	●		●	Oral / Topical	Oral / Topical / Rectal Vaginal / Inhalation	Oral	Oral
Labrafil® M 2130 CS	●	●		●	●		●	Rectal / Vaginal	Topical / Rectal / Vaginal		Topical
Labrasol®	●	●		●	●		●		Topical / Transdermal		Topical / Transdermal
Labrasol® ALF	●	●		●	●		●	Oral	Oral	Oral	Oral
Lauroglycol™ 90	●	●		●	●		●	Oral	Oral	Oral	Oral / Topical / Nasal
Lauroglycol™ FCC	●	●		●	●		●	Oral	Oral / Topical		Oral
Maisine® CC	●	●		●	● ¹	●	●	Oral	Oral	Oral	Oral
Monosteol™		●					●	Topical	Topical		Topical
Ovucire® range	● ²	● ²		●	● ²		●	Vaginal	Vaginal		Vaginal
Peceol™	●	●		●	●	●	●	Oral / Topical / Transdermal / Dietary supplements	Oral / Topical / Transdermal	Oral	Oral / Topical
Plurol® Diisostearique	●	●		● ³			●	Topical			
Plurol® Oleique CC 497	●			●			●	Oral / Vaginal	Oral		Oral / Vaginal
Precirol® ATO 5	●	●		●	●	●	●	Oral	Oral	Oral	Oral
Sedefos™ 75							●		Topical		
Suppocire® range	● ²	● ²	● ²	●	●		●	Rectal / Vaginal	Rectal / Vaginal	Rectal / Vaginal	Rectal / Vaginal
Tefose® 1500	●			●	●		●	Topical	Topical / Rectal		
Tefose® 63	●			●	●		●	Topical / Rectal / Vaginal	Topical / Rectal / Vaginal		Topical / Rectal / Vaginal
Transcutol® HP	●	●		●	●		●		Oral / Auricular / Injectable		Oral / Injectable
Transcutol® P	●	●		●	●		●	Topical / Transdermal	Topical / Transdermal / Vaginal		Topical / Transdermal
Transcutol® V - Veterinary	●	●		●	●		●	Topical / Transdermal	Topical / Transdermal / Injectable		Topical / Transdermal / Injectable

¹ Pending, ² Depending on product grades, ³ Inactive



Lipid Excipients for Drug Delivery

About Gattefossé

Gattefossé is a leading provider of excipients and formulation solutions to healthcare industries worldwide. Our company history - of over one hundred and thirty years - is built on commitment to innovation and service. We work diligently to guarantee the pharmaceutical qualification of our excipients.

Lipid excipients

The lipids and fatty acids used in the production of our excipients are derived strictly from raw materials of vegetable origin.

Excipients are obtained by the esterification of fatty acids with alcohols - glycerol, polyethylene glycol, polyglycerol and propylene glycol, by alcoholysis of vegetable oils and fats with glycerol, PEG and propylene glycol and by inter-esterification of hydrogenated vegetable oils.

Manufacturing quality

Our manufacturing sites are ISO certified by SGS (9001 version 2008) and follow IPEC Good Manufacturing Practices (GMP) guidelines. Production processes conform to international standards and employ a rigorous Quality Management System. We have obtained the GMP certificate of inspection from ANSM (Agence nationale de sécurité du médicament et des produits de Santé - the French health authority).

Technical centres of excellence

Our technical centres of excellence in France, India, China and USA are at your service to provide technical support and formulation feasibility assessment.

Our key strengths are in providing formulation development support for solubility and oral bioavailability enhancement and lipid formulations for sustained release tablets. For topicals we advise on difficult to formulate actives, resolve stability issues and improve texture and sensoriality. For rectal and vaginal formulations we help customers optimize formulations for performance and manufacturability. We also have extensive formulation databases for topical and suppository formulations.

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