

Low-foaming and defoaming surfactants



KOLB

Low-foaming alcohol, fatty acid and polyole alkoxyates

Product family Imbentin™, Hedipin™	Chemical description	Specifications								
		Form at 25 °C	CAS-number	Average molecular weight [g/mole]	Active matter [%]	Cloud point [°C] 1% in deion. H ₂ O	Cloud point [°C] 5g in 25g BDG 25%	Other methods	Viscosity at 25°C [mPa·s]	Detergent Regulation
Imbentin-SG/43/C	POE/POP Adduct	liquid	69013-18-9	530	>99.5	5	34	11 (K)	36.0	◆
Imbentin-SG/703	POE/POP Adduct	liquid	69013-18-9	1170	>99.5	10		45 (D)	100.0	◆
Imbentin-SG/704	POE/POP Adduct	liquid	69013-18-9	930	>99.0	11	29		90.0	◆
Imbentin-SG/702/AG	POE/POP Adduct	liquid	69013-18-9	850	>99.0	18	32		70.0	◆
Imbentin-SG/715/AG	POE/POP Adduct	liquid	69013-18-9	2250	>99.5	19	35	45 (D)	200.0	◆
Imbentin-SG/723/AG	POE/POP Adduct	liquid	n.a.	2290	>99.8	20	28	44 (D)	185.0	◆
Imbentin-SG/722/T	POE/POP Adduct	liquid	69013-18-9	570	>99.5	24	51		60.0	◆
Imbentin-SG/725/T	POE/POP Adduct	liquid	n.a.	690	>99.5	25	38		70.0	◆
Imbentin-SG/45/AG	POE/POP Adduct	liquid	69013-18-9	580	>99.5	28	47		45.0	◆
Imbentin-SG/727/AG	POE/POP Adduct	liquid	68439-51-0	620	>99.5	28	44		48.5	◆
Imbentin-SG/719/AG	POE/POP Adduct	liquid	69013-18-9	810	>98.5	29	37		65.0	◆
Imbentin-SG/46/C	POE/POP Adduct	liquid	69013-18-9	680	>98.0	30	41		45.0	◆
Imbentin-SG/8922/AG	POE/POP Adduct	liquid	69013-18-9	560	>99.5	31	41		40.0	◆
Imbentin-SG/733/C	POE/POP Adduct	liquid	69013-18-9	630	>99.5	34	50		68 (20°C)	◆
Imbentin-SG/2583/B	POE/POP Adduct	liquid	69013-18-9	810	>99.7	35	43		70.0	◆
Imbentin-SG/142/EB	POE/POP Adduct, end-capped	liquid	n.a.	514	>94.0	37	63	35 (H)	30.0	◆
Imbentin-SG/701/C	POE/POP Adduct	liquid	69013-18-9	810	>99.5	37	45		77.0	◆
Imbentin-SG/705/AG	POE/POP Adduct	liquid	69013-18-9	790	>99.5	37	45		30.0	◆
Imbentin-PPF	POE/POP Adduct	liquid	69013-18-9	880	>99.5	38	45		80.0	◆
Imbentin-SG/737/T	POE/POP Adduct	liquid	69013-18-9	940	>99.5	39	46		100.0	◆
Imbentin-SG/48/C	POE/POP Adduct	liquid	69013-18-9	710	>99.5	40	48		65.0	◆

(C) 1% in NaCl 10%

(D) 5% in BDG 25%

(F) 10% in BDG 25%

(H) 10% in deion. H₂O

(K) 3 g product in 10 ml alcohol (30 °C) = ml H₂O

(L) 1% in NaCl 5%

specified cloud point values are printed in bold

Low-foaming alcohol, fatty acid and polyole alkoxyates

		Specifications								
Product family Imbentin™, Hedipin™	Chemical description	Form at 25 °C	CAS-number	Average molecular weight [g/mole]	Active matter [%]	Cloud point [°C] 1% in deion. H ₂ O	Cloud point [°C] 5g in 25g BDG 25%	Other methods	Viscosity at 25°C [mPa·s]	Detergent Regulation
Imbentin-SG/802	POE/POP Adduct	liquid	69013-18-9	860	>99.5	42			80.0	
Imbentin-SG/172/T	POE/POP Adduct	liquid	69013-13-9	970	>99.5	45	46		110.0	◆
Imbentin-SG/729/AG	POE/POP Adduct	liquid	n.a.	660	>99.7	45	53	36 (L)	35 (40°C)	◆
Imbentin-SG/918/AG 80 %	POE/POP Adduct	liquid	69013-18-9	1570	>79.0	51			350.0	◆
Imbentin-SG/2385/C	POE/POP Adduct	liquid	69013-18-9	580	>99.5	60	51		60.0	◆
Imbentin-SG/128/EB	POE/POP Adduct, end-capped	liquid	n.a.	525	>99.5		59		25.0	◆
Imbentin-SG/43/AG	POE/POP Adduct	liquid	69013-18-9	480	>99.5	3	34	11 (K)	35.0	◆
Imbentin-SG/25/C	POE/POP Adduct	liquid	69013-8-9	590	>99.5		41		40.0	◆
Imbentin-SG/717/AG	POE/POP Adduct	liquid	n.a.	360	>99.5			47 (D)	20.0	◆
Hedipin-CSG/01	POE/POP Adduct	liquid	n.a.	880	>99.7		61		90.0	◆
Imbentin-SG/2482/B	POE/POP Adduct	liquid	69013-18-9	930	>99.7			30 (F)	70.0	◆
Imbentin-SG/803	POE/POP Adduct	liquid	9038-95-3	5510	>99.0			48 (C)		

(C) 1% in NaCl 10%

(D) 5% in BDG 25%

(F) 10% in BDG 25%

(H) 10% in deion. H₂O

(K) 3 g product in 10 ml alcohol (30°C) = ml H₂O

(L) 1% in NaCl 5%

specified cloud point values are printed in bold

Functionalities				Household cleaning	Industrial and institutional cleaning	Metal treatment and cleaning	Textile treatment												
low foaming	detergency	wetting	emulsifying	alkaline stability	acid stability	kitchen, bath: manual cleaning of floors & walls, sanitary ceramic	dishes, cutlery, glass: automatic dish-washing	dishes, cutlery, glass: rinse-aid, automatic	public buildings, hotels, hospitals (septic and antiseptic area): cleaning and care of large areas (walls, floors)	food industry, breweries: cleaning of machines, pipes and bathrooms	hotels and restaurants: cleaning of dishes and bottles, rinse-aid, automatic	cleaning for working areas by spraying or dipping process: high-pressure cleaning, defatting, dipping baths	raw fiber treatment, dyeing of synthetic & natural fibres and textiles: pretreatment (scouring & mercerisation), washing, dyeing	Lubricants	Polymerisation and plastics	Coatings and concrete	Agro chemicals	Other industries	Product family Imbentin™, Hedipin™
●	○	○	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆	✓		✓		✓	Imbentin-SG/802
○	○	●	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆						Imbentin-SG/172/T
○	○	○	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆						Imbentin-SG/729/AG
○	○	○	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆					✓	Imbentin-SG/918/AG 80%
○	○	○	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆						Imbentin-SG/2385/C
○	○	○	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆	✓				✓	Imbentin-SG/128/EB
○	○	○	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆	✓					Imbentin-SG/43/AG
○	○	○	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆					✓	Imbentin-SG/25/C
○	○	○	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆						Imbentin-SG/717/AG
○	○	○	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆	✓		✓			Hedipin-CSG/01
○	○	○	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆						Imbentin-SG/2482/B
○	○	○	○	○	○	◆	◆	◆	◆	◆	◆	◆	◆					✓	Imbentin-SG/803

Defoaming alcohol and polyole alkoxyates

Product family Hedipin™ and Hedicol™	Chemical description	Specifications							Functionalities			Applications					
		Form at 25 °C	CAS-number	Average molecular weight [g/mole]	Active matter [%]	Cloud point [°C] in 1% deion. H ₂ O	Cloud point [°C] 5g in 25g BDG 25%	Other methods	Viscosity at 25°C [mPa·s]	Detergent Regulation	low foaming	detergency	alkaline stability	Textile auxiliaries	Coatings & concrete	Other Industries	
Hedipin-AFT/01	Blend POE/POP Adducts	liquid	n.a.		n.a.			17		300	◆	●	○	○	◆	✓	✓
Hedipin-AFT/64	Diamine alkoxyate	liquid	n.a.	5600	>99.5	29	30			710		●	○	○		✓	✓
Hedipin-AFT/68	POE/POP Adduct	liquid	9082-00-2	4800	>99.5		42	41 (D)		610		●		○			✓
Hedipin-AFT/74	POE/POP Adduct	liquid	n.a.	2250	>99.5		33			400		●		○			✓
Hedipin-AFT/76	POE/POP Adduct	liquid	69013-18-9	2600	>99.5		35			170		●		○	◆		✓
Hedipin-AFT/82	POE/POP Adduct	liquid	n.a.	4700	>99.5	13	20	30 (D)		300		●		○			✓
Hedipin-AFT/88	Polyol alkoxyate	liquid	n.a.	1200	n.a.	23	25			1000		●		○	◆		✓
Hedipin-AFT/100		liquid	n.a.	780	>99.5			30 (D)		70	◆	●		○			✓
Hedicol-AF/06	POE/POP Adduct	liquid	69013-18-9	1680	>99.5		32					●		○		✓	
Hedicol-AF/31	Blend of alkoxyates	liquid	n.a.									●		○		✓	
Hedicol-AF/32	Blend of alkoxyates	liquid	n.a.									●		○		✓	
Hedicol-AF/33	Blend of alkoxyates	liquid	n.a.									●		○		✓	

(C) 1% in NaCl 10%

(D) 5% in BDG 25%

(F) 10% in BDG 25%

(H) 10% in deion. H₂O

(K) 3 g product in 10 ml alcohol (30°C) = ml H₂O

(L) 1% in NaCl 5%

strong ● medium ○ typical application ◆

specified cloud point values are printed in bold



The day-dream (or nightmare) of foam

Dear Reader,

Faced with the word 'foam' the theoretician thinks in terms of spherical or polyhedral foam, Gibbs elasticity, Marangoni flow and Laplace pressure. He finds explanations for the generation and breaking of foam. The practitioner, by contrast, seeks solutions and ponders how to create, suppress and even prevent foam from forming in the first place.

Kolb is in a position to offer practical solutions. Having many years' experience in the development of low-foaming surfactants and defoamers, and knowing the requirements of specific applications, we are able to offer a range of alcohol, polyol and amine alkylene oxide adducts for usage in a variety of industries and domestic environments. The focus is on cleaning processes in the household, institutional and industrial areas, as well as on various textile manufacturing processes.

We have taken steps towards finding imaginative ways of linking chemistry with environmental considerations.

Competence in foam!

