



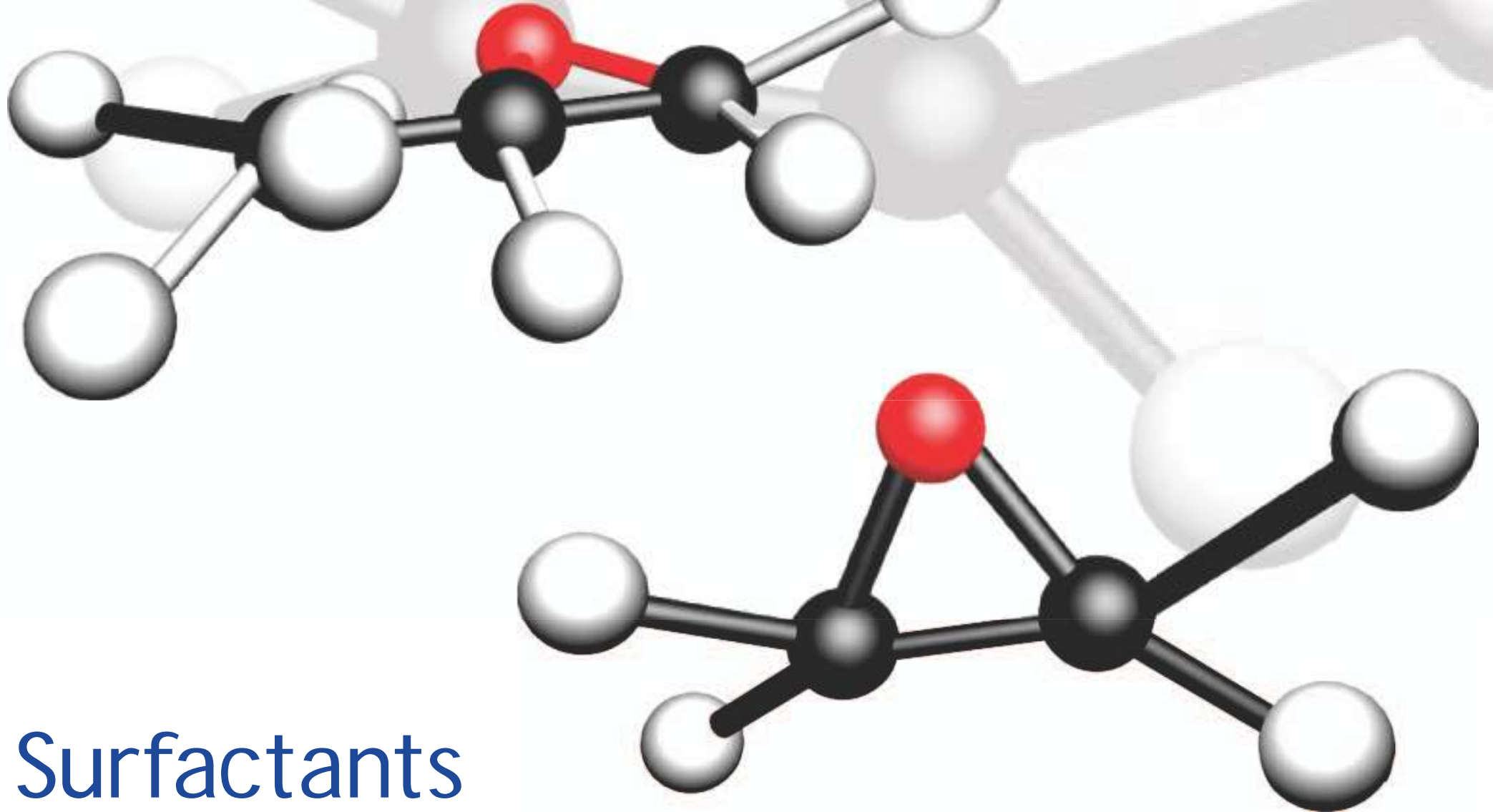
**VISWAAT**

**Viswaat Chemicals Ltd.**

*An IMS (ISO 9001:2015 ISO 14001 : 2015  
and OHSAS 18001:2007) Certified Company*



**Responsible Care®**  
OUR COMMITMENT TO SUSTAINABILITY



**Surfactants**

## Alkyl Phenol Ethylene Oxide Condensates

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Hydroxyl value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VINOL RE 50	Nonyl Phenol 4.5 EO	9016-45-9	Liquid	> 99.5	46 - 48 / C	130- 140	9.5 ± 0.5			✓			✓
VINOL RE 100/6	Nonyl Phenol 6 EO	9016-45-9	Liquid	> 99.5	61 - 63 / C	110 - 120	10.9 ± 0.5			✓			✓
VINOL RE 950	Nonyl Phenol 9.5 EO	9016-45-9	Liquid	> 99.5	56 - 60 / B	85- 95	13.1 ± 0.5	✓					✓
VINOL REMF 100	Nonyl Phenol 10 EO	9016-45-9	Turbid Viscous Liquid	> 99.5	60 - 62 / B	80- 90	13.3 ± 0.5	✓					✓
VINOL REMF 130	Nonyl Phenol 13 EO	9016-45-9	Turbid Viscous Liquid	> 99.5	88 - 91 / B	68- 75	14.4 ± 0.5	✓					✓
VINOL REMF 150	Nonyl Phenol 15 EO	9016-45-9	Turbid Viscous Liquid / Paste	> 99.5	94 - 96 / B	60- 67	15.0 ± 0.5	✓					
VINOL REMF 200	Nonyl Phenol 20 EO	9016-45-9	Paste / Waxy Solid	> 99.5	72 - 74 / D	47- 55	16.0 ± 0.5	✓					
VINOL REMF 250	Nonyl Phenol 25 EO	9016-45-9	Waxy Solid	> 99.5	72 - 76 / D	40- 45	16.5 ± 0.5	✓					
VINOL REMF 300	Nonyl Phenol 30 EO	9016-45-9	Paste / Waxy Solid	> 99.5	76 - 78 / D	34- 39	17.1 ± 0.5	✓					✓
VINOL REMF 400	Nonyl Phenol 40 EO	9016-45-9	Solid / Flakes	> 99.5	76 - 78 / D	25- 30	17.8 ± 0.5						✓
VINOL REMF 400-AD	Nonyl Phenol 40 EO	9016-45-9	Liquid	Approx. 70	72 - 77 / D	25- 30	17.8 ± 0.5						✓
Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Hydroxyl value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VINOL CP4	Card Phenol 4 EO	9016-45-9	Liquid	> 99.5	62 - 68 / H		8.5 ± 0.5	✓		✓			✓
VINOL CP6	Card Phenol 6 EO	9016-45-9	Liquid	> 99.5	68 - 72 / H		10.5 ± 0.5	✓		✓			✓
Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Hydroxyl value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VINOL REX 80	Octyl Phenol 8 EO	9002-93-1	Viscous Liquid	> 99.5	63 - 67 / B	95- 105	13.0 ± 0.5	✓		✓			
VINOL REX 100	Octyl Phenol 10 EO	9002-93-1	Viscous Liquid	> 99.5	65 - 67 / B	80- 92	13.5 ± 0.5	✓					
VINOL REX 250	Octyl Phenol 25 EO	9002-93-1	Solid	> 99.5	72 - 77 / D	40- 45	16.8 ± 0.5						✓
VINOL REX 400	Octyl Phenol 40 EO	9002-93-1	Solid / Flakes	> 99.5	74 - 76 / D	25- 30	17.8 ± 0.5						✓
VINOL REX 405	Octyl Phenol 40 EO	9002-93-1	Liquid	Approx. 70	74 - 76 / D	25- 30	17.8 ± 0.5						✓

## Natural Fatty Alcohol Ethylene Oxide Condensates

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Hydroxyl value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICORYL AL 200	C12-14 Alcohol 2 EO	68439-50-9	Liquid	> 99.5	29 - 32 / A	196 - 202	6 ± 0.5	✓		✓		✓	
VICORYL AL 250	C12-14 Alcohol 2.5 EO	68439-50-9	Liquid	> 99.5	32 - 40 / A	184 - 188	7.2 ± 0.5	✓		✓			
VICORYL AL 300	C12-14 Alcohol 3.0 EO	68439-50-9	Liquid	> 99.5	46 - 50 / C	171 - 178	8.0 ± 0.5	✓		✓			
VICORYL AL 600	C12-14 Alcohol 6 EO	68439-50-9	Turbid Liquid	> 99.5	42 - 46 / B	114 - 126	11.4 ± 0.5	✓		✓			
VICORYL AL 700	C12-14 Alcohol 7 EO	68439-50-9	Turbid Liquid	> 99.5	55 - 60 / B	105 - 115	10.8 ± 0.5			✓			
VICORYL AL 800	C12-14 Alcohol 8 EO	68439-50-9	Turbid Liquid	> 99.5	66 - 68 / B	98 - 105	12.8 ± 0.5	✓		✓		✓	
VICORYL AL 900	C12-14 Alcohol 9 EO	68439-50-9	Turbid Liquid	> 99.5	62 - 64 / J	93 - 97	13.3 ± 0.5			✓			
VICORYL AL 100A	C12-14 Alcohol 10 EO	68439-50-9	Turbid Liquid	> 99.5	86 - 90 / B	90 - 103	13.8 ± 0.5	✓		✓			
VICORYL AL 165A	C12-14 Alcohol 16.5 EO	68439-50-9	Waxy Solid	> 99.5	75 - 81 / K	55 - 65	15.7 ± 0.5			✓			
VICORYL AL 180A	C12-14 Alcohol 18 EO	68439-50-9	Waxy Solid	> 99.5	74 - 76 / D	55 - 65	15.7 ± 0.5			✓			
VICORYL AL 230A	C12-14 Alcohol 23 EO	68439-50-9	Waxy Solid / Flakes	> 99.5	76 - 80 / D	40 - 45	16.7 ± 0.5			✓			
VICORYL AL 400A	C12-14 Alcohol 40 EO	68439-50-9	Waxy Solid / Flakes	> 99.5	78 - 80 / D	30 - 40	18 ± 0.5			✓			✓
VICORYL AL 4070	C12-14 Alcohol 40 EO	68439-50-9	Liquid	Approx. 70	78 - 82 / D	30 - 40	18 ± 0.5			✓			✓
Product Name	Composition (EO moles)	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Hydroxyl value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICORYL CS 05	C16-18 Alcohol 5 EO	68439-49-6	White to Creamy Semi Solid	> 99.5	69 - 72 / F	110 - 125	9 ± 0.5			✓			
VICORYL CS 10	C16-18 Alcohol 10 EO	68439-49-6	White to Creamy Semi Solid	> 99.5	88 - 92 / C	73 - 80	12.5 ± 0.5			✓			
VICORYL CS 20	C16-18 Alcohol 20 EO	68439-49-6	White to Creamy Flakes	> 99.5	77 - 78 / D	40 - 52.5	15.4 ± 0.5			✓			✓
VICORYL CS 25	C16-18 Alcohol 25 EO	68439-49-6	White to Creamy Flakes	> 99.5	76 - 80 / D	38 - 46	16.1 ± 0.5			✓			✓
VICORYL CS 50	C16-18 Alcohol 50 EO	68439-49-6	White to Creamy Flakes	> 99.5	73 - 79 / D	20 - 25	17.9 ± 0.5	✓		✓			✓
VICORYL CS 80	C16-18 Alcohol 80 EO	68439-49-6	White to Creamy Flakes / Powder	> 99.5	76 - 79 / D	12.5 - 16.5	20 ± 0.5			✓			✓
VICORYL E WAX	BLEND	68439-49-6	White to Creamy Flakes	> 99.5	—	170 - 190				✓			

## Natural Fatty Alcohol Ethylene Oxide Condensates

Product Name	Composition	CAS Number	Appearance @ 25 deg. C	pH range	Iodine value	Acid value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICORYL OC 200	Cetyl Oleyl Alcohol 2 EO	68920-66-1	Clear / Slight Hazy Colourless to Pale Yellow Liquid	6.0 - 7.50	36 - 40	0.50 max.	5.20 ± 0.5	✓		✓			✓
VICORYL OC 500	Cetyl Oleyl Alcohol 5 EO	68920-66-1	Opaque / white to Off-White Liquid	6.0 - 7.50	25 - 29	0.50 max.	9.25 ± 0.5	✓		✓			✓
VICORYL OC 100A	Cetyl Oleyl Alcohol 10 EO	68920-66-1	White Soft Paste	6.0 - 7.50	17 - 25	0.50 max.	12.60 ± 0.5			✓			
VICORYL OC 250A	Cetyl Oleyl Alcohol 25 EO	68920-66-1	White Paste	6.0 - 7.50	08 - 12	0.50 max.	16.0 ± 0.5			✓			✓
Product Name	Composition (Behenyl Alcohol)	CAS Number	Appearance @ 25 Deg. C	Colour, Gardner	Acid value	Hydroxyl value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICORYL WX - 200	C18-22 Alcohol 2 EO	9005-00-9	White transparent plastic mass	1.0 max.	1.0 max.	137 ± 5	4.30 ± 0.5			✓			
VICORYL WX - 500	C18-22 Alcohol 5 EO	9005-00-9	Opaque / white to Off-White Liquid	1.0 max.	1.0 max.	103 ± 5	4.30 ± 0.5			✓			
VICORYL WX - 700	C18-22 Alcohol 7 EO	9005-00-9	White Waxy Solid	1.0 max.	1.0 max.	90 ± 5	9.90 ± 0.5			✓			
VICORYL WX - 100A	C18-22 Alcohol 10 EO	9005-00-9	White Waxy Solid	1.0 max.	1.0 max.	73 ± 5	11.60 ± 0.5			✓			

## Synthetic Fatty Alcohol Ethylene Oxide Condensates

Product Name	Composition (Isotridecyl Alcohol)	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Hydroxyl value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICATEX 1330	Isotridecanol 3 EO	9043-30-5	Liquid	> 99.5	34 - 39 / F	155 - 165	8.1± 0.5	✓		✓			✓
VICATEX 1350	Isotridecanol 5 EO	9043-30-5	Turbid Liquid	> 99.5	56 - 59 / F	145 - 155	10.6± 0.5	✓		✓			✓
VICATEX 1360	Isotridecanol 6 EO	9043-30-5	Turbid Liquid	> 99.5	68 - 70 / H	105 - 120	11.5± 0.5	✓		✓			✓
VICATEX 1370	Isotridecanol 7 EO	9043-30-5	Turbid Liquid	> 99.5	68 - 72 / H	105 - 115	12.2± 0.5	✓		✓			✓
VICATEX 1380	Isotridecanol 8 EO	9043-30-5	Turbid Liquid	> 99.5	74 - 78 / H	95 - 105	12.9± 0.5	✓		✓			✓
VICATEX 1390	Isotridecanol 9 EO	9043-30-5	Turbid Liquid	> 99.5	58 - 62 / B	85 - 95	13.4± 0.5	✓		✓			✓

## Synthetic Fatty Alcohol Ethylene Oxide Condensates

Product Name	Composition (Isotridecyl Alcohol)	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Hydroxyl value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICATEX 1310A	Isotridecanol 10 EO	9043-30-5	Turbid Liquid	> 99.5	68 - 72 / B	80 - 90	13.9± 0.5	✓		✓			✓
VICATEX 1312A	Isotridecanol 12 EO	9043-30-5	Turbid Liquid / Paste	> 99.5	84 - 89 / B	75 - 85	14.5± 0.5			✓			✓
VICATEX 1340A	Isotridecanol 40 EO	9043-30-5	Solid	> 99.5	72 - 77 / D	27 - 32	18± 0.5			✓			✓
VICATEX 1340AD	Isotridecanol 40 EO	9043-30-5	Liquid	Approx. 70	72 - 77 / D	27 - 32	18± 0.5			✓			✓
Product Name	Composition (Isodecyl Alcohol)	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Hydroxyl value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICATEX 1030	Isodecanol 3 EO	78330-20-8	Turbid Liquid	> 99.5	36 - 39 / F	–	8.5 ± 0.5			✓		✓	
VICATEX 1060	Isodecanol 6 EO	78330-20-8	Turbid Liquid	> 99.5	39 - 43 / H	133 ± 5	12.5 ± 0.5	✓		✓			✓
VICATEX 1080	Isodecanol 8 EO	78330-20-8	Turbid Liquid	> 99.5	71 - 75 / H	110 ± 5	14 ± 0.5	✓		✓			✓

## Glycerol Ethylene Oxide Condensates

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Hydroxyl value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VISCASPIN GLE 800	Glycerol 8 EO	31694-55-0	Liquid	> 99.5	–	340-355	15.5± 0.5						✓
VISCASPIN GLE 120A	Glycerol 12 EO	31694-55-0	Flakes	> 99.5	–	610-630	17.0± 0.5						✓

## Castor Oil Ethylene Oxide Condensates

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Saponification value mgKOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VISCO 02	Castor Oil 2 EO	61791-12-6	Liquid	> 99.5	–	160 - 170	1.5 ± 0.5	✓					✓

## Castor Oil Ethylene Oxide Condensates

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Saponification value mgKOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VISCO 10	Castor Oil 10 EO	61791-12-6	Liquid	> 99.5	—	115 - 125	6.5 ± 0.5			✓			✓
VISCO 25	Castor Oil 25 EO	61791-12-6	Viscous Liquid	> 99.5	50 - 60 / E	81 - 85	10.7 ± 0.5	✓					✓
VISCO 40	Castor Oil 40 EO	61791-12-6	Viscous Liquid / Paste	> 99.5	75 - 78 / E	58 - 68	13± 0.5	✓		✓			✓
VISCO 48	Castor Oil 48 EO	61791-12-6	Viscous Liquid / Paste	> 99.5	56 - 58 / D	50 - 55	14.0 ± 0.5			✓			✓
VISCO 60	Castor Oil 60 EO	61791-12-6	Paste	> 99.5	75 - 78 / D	40 - 50	14.8 ± 0.5			✓			✓
VISCO 200	Castor Oil 200 EO	61791-12-6	Solid / Flakes	> 99.5	—	14 - 20	18 ± 0.5	✓		✓			✓

## Hydrogenated Castor Oil Ethylene Oxide Condensates

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Saponification value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VISCO RH 20	Hydrogenated Castor Oil+ 20 EO	61788-85-0	Yellow soft pasty liquid	> 99.5	50 - 65 / A	95 -105	10± 0.5			✓			✓
VISCO RH 40	Hydrogenated Castor Oil+ 40 EO	61788-85-0	Yellow soft pasty liquid	> 99.5	52 - 54 / D	45 - 65	13± 0.5			✓			
VISCO RH 60	Hydrogenated Castor Oil+ 60 EO	61788-85-0	Yellow soft pasty liquid	> 99.5	80 - 90 / A	40 - 50	15± 0.5			✓			

## Tristyrylphenol Ethylene Oxide Condensates

Product Name	Composition (Styrenated Phenol)	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Hydroxyl value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICATEX RSP 157(M)	Distyrylphenol 18 EO	99734-09-5	Viscous liquid / Semi solid	> 99.5	75 - 78 / B	40- 60	14± 0.5			✓			✓
VICATEX RSP 157	Tristyrylphenol 18 EO	99734-09-5	Viscous liquid / Semi solid	> 99.5	75 - 78 / B	40- 50	13.5± 0.5			✓			✓
VICATEX RSP 280	Tristyrylphenol 28 EO	99734-09-5	Viscous liquid / Semi solid	> 99.5	28 - 32 / G	25-40	16.7± 0.5	✓		✓			
VICATEX RSP 450	Tristyrylphenol 45 EO	99734-09-5	Semi solid / Solid	> 99.5	70 - 73 / D	15- 30	13± 0.5	✓		✓			

## Fatty Acid Ethylene Oxide Condensates

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Saponification value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICASID SA 06	Stearic Acid 6 EO	9004-99-3	Liquid	> 99.0	58 - 62 / C	95 - 105	10± 0.5			✓			✓
VICASID SA 08	Stearic Acid 8 EO	9004-99-3	Turbid Liquid / Paste	> 99.0	63 - 67 / C	75 - 92	11.2± 0.5			✓			
VICASID SA 40	Stearic Acid 40 EO	9004-99-3	White Waxy Solid / Flakes	> 99.0	64 - 67 / D	25 - 35	17.3± 0.5			✓			
Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Saponification value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICASID OA 06	Oleic Acid 6 EO	9004-96-0	Liquid	> 99.0	–	110 - 130	9.3± 0.5			✓			✓
VICASID OA 08	Oleic Acid 8 EO	9004-96-0	Turbid Liquid	> 99.0	64 - 68 / H	75 - 90	11.0± 0.5			✓			✓
VICASID OA 10	Oleic Acid 10 EO	9004-96-0	Turbid Liquid	> 99.0	72 - 74 / C	75 - 81	12.1± 0.5			✓			✓

## Fatty Amine Ethylene Oxide Condensates

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Amine value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICAMINE CCA 20	Cocomine 2 EO	61791-14-8	Liquid	> 99.5	–	195 - 200	4.5± 0.5	✓		✓			✓
VICAMINE CCA 100	Cocomine 10 EO	61791-14-8	Liquid	> 99.5	76 - 78 / D	82 - 86	12.1± 0.5						✓
VICAMINE CCA 110	Cocomine 11 EO	61791-14-8	Liquid	> 99.5	76 - 80 / D	83 - 87	12.1± 0.5						✓
VICAMINE CCA 150	Cocomine 15 EO	61791-14-8	Liquid	> 99.5	80 - 85 / D	62 - 68	14.0± 0.5	✓					✓
Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Amine value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICAMINE TA 100	Tallow Amine 10 EO	61791-26-2	Viscous Liquid / Paste	> 99.5	85 - 90 / B	80 - 90	12.1± 0.5	✓		✓			✓
VICAMINE TA 150	Tallow Amine 15 EO	61791-26-2	Viscous Liquid / Paste	> 99.5	78 - 82 / D	58 - 66	14.0± 0.5	✓					✓
VICAMINE TA 200	Tallow Amine 20 EO	61791-26-2	Paste / Solid	> 99.5	84 - 86 / D	45 - 52	15.1± 0.5	✓		✓			✓
VICAMINE TA 250	Tallow Amine 25 EO	61791-26-2	Paste / Solid	> 99.5	84 - 88 / D	36 - 43	16.0± 0.5						✓

## Fatty Amine Ethylene Oxide Condensates

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	Amine value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICAMINE OA 20	Oleyl Amine 2 EO	26635-93-8	Viscous Liquid	> 99.5		155 - 165	4.5± 0.5						✓
VICAMINE OA 120	Oleyl Amine 12 EO	26635-93-8	Brown Liquid	> 99.5	78 - 82 / D	65 - 75	13.0± 0.5	✓					

## Polysorbates

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Hydroxyl value mg KOH/g	Saponification value mg KOH/g	pH 5% Aq. Solution	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICAPOL 20 (Polysorbate 20)	Sorbitan Monolaurate 20 EO	9005-64-5	Yellow to amber liquid	96 - 180	40 - 50	5.0 - 7.0	16.7± 0.5	✓					
VICAPOL 40 (Polysorbate 40)	Sorbitan Monopalmitate 20 EO	9005-66-7	Yellow to amber liquid	89 - 105	41 - 52	5.0 - 7.0	15.6± 0.5			✓			
VICAPOL 60 (Polysorbate 60)	Sorbitan Monostearate 20 EO	9005-67-8	Yellow to amber liquid	81 - 96	45 - 55	5.0 - 7.0	14.9± 0.5	✓		✓			
VICAPOL 80 (Polysorbate 80)	Sorbitan Mono-oleate 20 EO	9005-65-6	Yellow to amber liquid	65 - 80	45 - 55	6.0 - 8.0	15.0± 0.5	✓					✓
VICAPOL 81 (Polysorbate 81)	Sorbitan Mono-oleate 5 EO	9005-65-5	Yellow to amber liquid	134 - 150	96 - 104	5.0 - 7.0	10.0± 0.5			✓			
VICAPOL 85 (Polysorbate 85)	Sorbitan Tri-oleate 20 EO	9005-65-6	Yellow to amber liquid	39 - 52	80 - 95	6.0 - 8.0	11.0± 0.5	✓		✓			

## Polyethylene Glycol's

Product Name	Molecular Weight g/mole	CAS Number	Appearance @ 25 Deg. C	Active content, %	Viscosity, cst @ 98.9°C	pH 5% Aq. Solution	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICAPEG 200	190 - 210	25322-68-3	Liquid	> 99.5	3.90 - 4.80	4.0 - 7.5	> 18			✓			✓
VICAPEG 300	285 - 315	25322-68-3	Liquid	> 99.5	5.40 - 6.40	4.0 - 7.5	> 18			✓			✓
VICAPEG 400	380 - 420	25322-68-3	Liquid	> 99.5	6.90 - 7.20	4.0 - 7.5	> 18			✓			✓
VICAPEG 600	570 - 630	25322-68-3	Liquid	> 99.5	9.90 - 11.20	4.0 - 7.5	> 18			✓			✓



## Polyethylene Glycol's

Product Name	Molecular Weight g/mole	CAS Number	Appearance @ 25 Deg. C	Active content, %	Viscosity, cst @ 98.9°C	pH 5% Aq. Solution	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICAPEG 1000	900 - 1100	25322-68-3	Semi solid	> 99.5	16.0 - 19.0	4.0 - 7.5	> 18			✓			✓
VICAPEG 1500	1350 - 1650	25322-68-3	Flakes	> 99.5	25.0 - 32.0	4.0 - 7.5	> 18			✓			✓
VICAPEG 4000	3350 - 4500	25322-68-3	Flakes	> 99.5	76.0 - 110.0	4.0 - 7.5	> 18			✓			✓
VICAPEG 6000	5250 - 6750	25322-68-3	Flakes	> 99.5	250.0 - 390.0	4.0 - 7.5	> 18			✓			✓
VICAPEG 8000	7000 - 9000	25322-68-3	Flakes	> 99.5	470.0 - 900.0	4.0 - 7.5	> 18			✓			✓
VICAPEG 10000	9000 - 11000	25322-68-3	Flakes	> 99.5	470.0 - 970.0	4.0 - 7.5	> 18			✓			✓

## GLYCOL ESTERS

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Acid value mg KOH/g	Cloud point, Deg. C (1% Aqueous)	Saponification value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICAPEG 200 ML	PEG 200 Monolaurate	9004-81-3	Liquid	<5	15	130 -140	9						✓
VICAPEG 400 DL	PEG 400 Dilaurate	9004-81-3	Liquid	<10	28 - 30	125 - 135	10						✓
VICAPEG 400 MS	PEG 400 Monostearate	9004-99-3	Solid	<5	<5	80 - 90	12						✓
VICAPEG 400 DS	PEG 400 Distearate	9005-08-7	Solid	<10	<5	115 - 125	8 - 9						✓
VICAPEG 400 MO	PEG 400 Monooleate	9004-96-0	Liquid	<5	60 - 65	80 - 90	11 - 12						✓
VICAPEG 400 DO	PEG 400 Dioleate	9005-07-6	Liquid	<10	<5	110 - 135	8 - 8.5						✓
VICAPEG 600 MO	PEG 600 Monooleate	9005-07-6	Liquid	<5	78 - 80	60 - 70	13 - 14						✓
VICAPEG 600 DO	PEG 600 Dioleate	9005-07-6	Liquid	<10	10 - 12	90 - 100	10 - 11						✓
Product Name	Composition	CAS Number	Appearance	Acid value	Iodine value	Saponification value mg KOH/g	Melting Point, °C	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICAEST PDS	PEG 6000 DISTEARATE	9005-08-7	Off-white waxy solids / flakes	12 max.	<1	12 - 20	52 - 57			✓			

## ALCOHOL ESTERS

Product Name	Composition	CAS Number	Appearance	Acid value	Specific gravity @ 20°C	Saponification value mg KOH/g	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICAEST BS	Butyl stearate	123-95-5	Liquid	5 max.	0.890	160 - 170	> 5						✓
VICAEST TDS	Tridecyl Alcohol Stearate	31556-45-3	Liquid	3 max.	0.860 - 0.880	125 - 135	> 5						✓

## ETHYLENE OXIDE / PROPYLENE OXIDE BASED PERFORMANCE COPOLYMERS

Product Name	Composition	CAS Number	Appearance @ 25 Deg. C	Active content, %	Cloud point, Deg. C	pH range	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICASURF DF 5004	C12-14 Alcohol Alkoxylate	68439-51-0	Clear / Turbid Liquid	> 99.5	28 - 31 / B	6.50 - 7.50	1 - 7			✓			✓
VICASURF DF 4005	C12-14 Alcohol Alkoxylate	68439-51-0	Clear / Turbid Liquid	> 99.5	20 - 22 / B	6.50 - 7.50	1 - 7			✓			✓
VICASURF DF 9000	C12-14 Alcohol Alkoxylate	68439-51-0	Clear Liquid	> 99.5	37 - 41 / F	5.0 - 7.50	1 - 7			✓			✓
VICASURF DF 4001	C12-14 Alcohol Alkoxylate	68439-51-0	Clear Liquid	> 99.5	46 - 51 / F	5.0 - 7.50	1 - 7			✓			✓
VICASURF DF 4003	C12-14 Alcohol Alkoxylate	68439-51-0	Clear / Cloudy Viscous Liquid	> 99.5	41 - 45 / F	6.0 - 8.50	1 - 7			✓			✓
VICASURF DN 7009	C10 Alcohol Alkoxylate	61827-42-7	Clear / Turbid Liquid	> 99.5	37 - 45 / B	5.0 - 7.0	1 - 7			✓			✓
VICASURF DN 6009	C10 Alcohol Alkoxylate	61827-42-7	Clear / Turbid Liquid	> 99.5	09 - 11 / B	6.5 - 7.5	1 - 7			✓			✓
VICASURF DN 6014	C10 Alcohol Alkoxylate	61827-42-7	Clear / Turbid Liquid	> 99.5	26 - 28 / B	6.5 - 7.5	1 - 7			✓			✓
VICASURF DN 7014	C10 Alcohol Alkoxylate	61827-42-7	Clear / Turbid Liquid	> 99.5	25 - 31 / B	5.0 - 7.0	1 - 7			✓			✓
VICASURF DN 7005	C10 Alcohol Alkoxylate	61827-42-7	Clear / Turbid Liquid	> 99.5	37 - 42 / B	5.0 - 7.0	1 - 7			✓			✓
VICASURF DT 9002	Isotridecanol Alkoxylate	69013 -18- 9	Clear / Cloudy Viscous Liquid	> 99.5	64 - 68 / B	6.0 - 8.0	1 - 7			✓			✓
VICASURF DT 7010	Isotridecanol Alkoxylate	69013 - 18- 9	Clear Liquid	> 99.5	72 - 76 / B	6.0 - 8.0	1 - 7			✓			✓
VICASURF HE 37	2-Ethyl Hexanol Alkoxylate	26468-86-0	Clear Liquid	> 99.5	40 - 45 / C	5.50 - 7.00	1 - 7			✓			✓
VICASURF CFA 8021	Cocofatty acid Alkoxylate	126645-98-5	Clear / Turbid Liquid	> 99.5	48 - 52 / F	6.00 - 8.00	1 - 7			✓			✓
VICASURF 1010	Diethylene glycol Alkoxylate	9003-11-6	Clear Liquid	> 99.5	53 - 59 / L	6.50 - 7.50	1-14			✓			✓

## VICASURF L -SERIES

Product Name	Average Molecular Weight	CAS Number	Appearance @ 25 Deg C	Active content, %	Cloud point, Deg.C (1%Aq)	pH (1%Aq)	HLB values	Agrochemicals	Detergents	Emulsifiers	Lubricants	Textiles	Polymerization
VICASURF L 61	difunctional block copolymer~ MW 2000	9003-11-6	Liquid	> 99.5	24 ±2	5 - 7	1 - 7			✓			
VICASURF L 62	difunctional block copolymer~ MW 2500	9003-11-6	Liquid	> 99.5	32 ±2	5 - 7	1 - 7			✓			
VICASURF L 64	difunctional block copolymer ~ MW 2900	9003-11-6	Liquid	> 99.5	58 ±2	5 - 7	1 - 7			✓			

## SELECTED SPECIALITIES

Product Name	Composition	CAS Number	Appearance @ 25 Deg C	Active content, %	Specific Gravity @20 C	Hydroxyl value, mg KOH /g	Melting Point/ Boiling Point Deg.C	Applications
VICASURF BPAP-200	Bisphenol-A 2 PO	37353-75-6	Off White Solid	> 99.5	1.07-1.10	310- 340	61 -65	Used in unsaturated polyester resins for glass fibre re-inforcement, urethane foams, resins
VINOL BPAP-600	Bisphenol-A 6 EO	32492-61-8	Liquid	> 99.5	~ 1.15	225- 240	> 220	Wetting agent, flow aid, impact strengthner,flexibilizer for coatings, resins and low VOC's
VINOL BNE 100	Beta- Naphthol 10 EO	35545-57-4	Liquid	> 99.5	1.20 to 1.30	85 -100	>200	As a non-ionic surfactant in electroplating industry, auxiliary brightner in zinc acid electrolytes
VICASOL GE 10	Phenol 1 EO	122-99-6	Liquid	> 99.5	1.107 – 1.113	–	245-250	Application segments include Home and personal care, pharmaceuticals, dyes and inks, and others.
VICASOL GP 10	Phenol 1 PO	770-35-4	Liquid	> 99.5	1.068 to 1.072	–	245-250	Used as a solvent and coalescing agent, electrodeposition coatings, textiles, dyes, latex adhesives

### TEST METHODS

METHOD- A	5 g Surfactant + 20 ml of 25% BDG
METHOD- B	1 g Surfactant + 100 g water
METHOD- C	5 g Surfactant + 25 ml of 25% BDG
METHOD- D	1 g Surfactant + 100 g of 10% NaCl solution
METHOD- E	1 g Surfactant + 25% solution of Acetic acid
METHOD- F	5 g Surfactant + 25g of 25% BDG

### TEST METHODS

METHOD- G	1 g Surfactant + 100 g of 1% Phenol solution
METHOD- H	10 g Surfactant + 100 g of 25% BDG
METHOD- I	10 g Surfactant + 100 g water
METHOD- J	1 g Surfactant + 100 g of 5% NaCl solution
METHOD- K	1 g Surfactant + 100 g of 5% K <sub>2</sub> SO <sub>4</sub> solution
METHOD- L	5 g Surfactant + 95 g of 25% BDG



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