



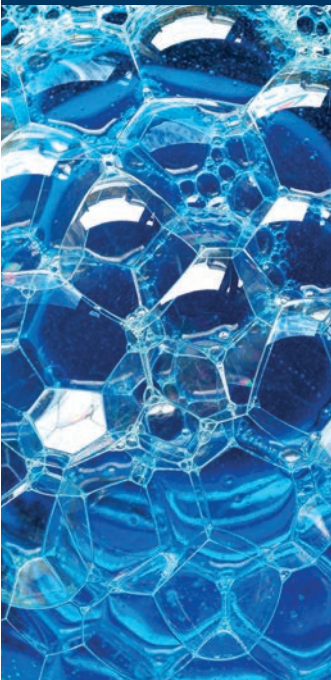
SASOL

# SURFACTANTS

## Product range

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Sasol Performance Chemicals



## About us

Sasol's Performance Chemicals business unit markets a broad portfolio of organic and inorganic commodity and speciality chemicals. Our business consists four key business divisions: Organics, Inorganics, Wax and PCASG (Phenolics, Carbon, Ammonia and Speciality Gases). About 6300 people (incl. employees from Regional Operating Hubs) in offices in 18 countries serve customers around the world with a multi-faceted portfolio of state-of-the-art chemical products and solutions for a wide range of applications and industries.

Our key products include surfactants, surfactant intermediates, fatty alcohols, linear alkyl benzene (LAB), short-chain linear alpha olefins, ethylene, petrolatum, paraffin waxes, synthetic waxes, cresylic acids, high-quality carbon solutions as well as high-purity and ultra-high-purity alumina. Our speciality gases sub-division supplies its customers with high-quality ammonia, hydrogen and CO<sub>2</sub> as well as liquid nitrogen, liquid argon, krypton and xenon gases.

Our products are as individual as the industrial applications they serve, with tailor-made solutions creating real business value for customers. Ongoing research activities result in a continuous stream of innovative product concepts that help our customers position themselves successfully in future markets.

Our products are used in countless applications in our daily lives to add value, security and comfort. Typical examples include detergents, cleaning agents, personal care, construction, paints and coatings, leather and metal processing, hot-melt adhesives, bitumen modification and catalyst support for automotive catalysts and other diverse specialty applications including oil and gas recovery, aroma production, plastic stabilisation, and polymer production. Every day, our researchers explore ways to improve our products and develop innovations that improve the quality of people's lives.



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## Foreword

Sasol's leading expertise in supplying surfactants and specialty products is reflected in our extensive product line: we supply anionic and nonionic surfactants, as well as a number of specialties.

This brochure gives a comprehensive overview of our global product portfolio. The production regions are listed within the tables. Our sales products are marketed globally, please contact our sales offices.

### **Adding value to life.**

Our worldwide manufacturing network together with the highly skilled marketing, research and development teams are dedicated to helping you achieve your performance and formulation requirements.

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	SAFOL 23 E12 .....	19	SLOVASOL 356/9 .....	23	
	SAFOL 236 E2 .....	20	SLOVASOL 457 .....	23	
	SAFOL 23 S 70 .....	31	SLOVASOL 458 .....	23	
	SAFOL EN 20 .....	18	SLOVASOL 458/9 .....	23	
	SAFOL EN 30 .....	18	SLOVASOL 610D-3.5 .....	12	
	SAFOL EN 50 .....	18	Sodium cumene sulphonate 40 .....	35	
	SAFOL EN 70 .....	18	SOLFODAC AC-3-H .....	29	
	SAFOL EN 90 .....	19	SOLFODAC AC-3-I .....	29	
	SAFOL EN 99 .....	19	SOLFODAC DBL-60 .....	29	
	SAFOL EN 300 .....	19	SOLFODAC 1545 .....	38	
	SLOVACID O 3 .....	32	SOLFODAC 1834 .....	38	
	SLOVACID O 6 .....	32	<b>T</b>	TENSIODAC HDL-60 C .....	38
	SLOVACID O 9 .....	32		TRIDAC ISO-3 .....	20
	SLOVACID O 20 .....	32		TRIDAC ISO-5 .....	20
	SLOVACID O 20/70 .....	32		TRIDAC ISO-5 D .....	21
	SLOVACID R 10 .....	33		TRIDAC ISO-6 .....	21
	SLOVACID R 20 .....	33		TRIDAC ISO-8 .....	21
	SLOVACID R 20/8 .....	33		TRIDAC ISO-8 85% .....	21
	SLOVAPOL N 182 .....	16		TRIDAC ISO-8 90% .....	21
	SLOVAPOL N 185 .....	16		TRIDAC ISO-9 H .....	22
	SLOVAPOL N 243 .....	13		TRIDAC ISO-9 H 85% .....	22
SLOVAPOL N 6818 .....	16	TRIDAC ISO-9 H 90% .....		22	
SLOVAPOL N 6820 .....	16	TRIDAC ISO-12 .....		22	
SLOVASOL 088 .....	12	TRIDAC ISO-12 90% .....		22	
SLOVASOL 133 .....	20	TRIDAC ISO-20 .....	23		
SLOVASOL 135 .....	20	TRIDAC ISO-40 70% .....	23		

# Tables



# 1. Surfactants, nonionic

## Linear alcohol ethoxylates

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>6</sub> -alcohol polyethylene glycol ether (2 EO)	<b>NOVEL 6-2</b>	100	62 <sup>1)</sup>	liquid	USA
C <sub>6</sub> -alcohol polyethylene glycol ether (3 EO)	<b>NOVEL 6-3</b>	100	73 <sup>2)</sup>	liquid	USA
C <sub>6</sub> -alcohol polyethylene glycol ether (6 EO)	<b>NOVEL 6-6</b>	100	56 <sup>3)</sup>	liquid	USA
C <sub>6</sub> -alcohol polyethylene glycol ether (15 EO)	<b>NOVEL 6-15</b>	100	—	liquid	USA
C <sub>6</sub> -alcohol polyethylene glycol ether (150 EO)	<b>NOVEL 6-150</b>	100	—	solid	USA
C <sub>6</sub> -C <sub>10</sub> -alcohol polyethylene glycol ether (1.8 EO)	<b>NOVEL 610-1.8</b>	100	—	liquid	USA
C <sub>6</sub> -C <sub>10</sub> -alcohol polyethylene glycol ethers (3.5 EO)	<b>ALFONIC 610-3.5</b>	100	63.5 <sup>1)</sup>	liquid	USA
	<b>NOVEL 610-3.5</b>	100	68 <sup>1)</sup>	liquid	USA
	<b>SLOVASOL 610D-3.5</b>	100	62–64 <sup>1)</sup>	liquid	Europe
C <sub>8</sub> -alcohol polyethylene glycol ethers (7 EO)	<b>NOVEL 8-7</b>	100	82–85 <sup>2)</sup>	liquid	USA, Europe
	<b>AEO 7-8-II</b>	100	—	liquid	Asia
C <sub>8</sub> -alcohol polyethylene glycol ether (8 EO)	<b>SLOVASOL 088</b>	100	57–59 <sup>3)</sup>	liquid	Europe
C <sub>8</sub> -C <sub>10</sub> -alcohol polyethylene glycol ethers (2 EO)	<b>ALFONIC 810-2</b>	100	48 <sup>1)</sup>	liquid	USA
	<b>NOVEL 810-2</b>	100	48 <sup>1)</sup>	liquid	USA
	<b>NOVEL 810D-2</b>	100	50–53 <sup>1)</sup>	liquid	Europe
C <sub>8</sub> -C <sub>10</sub> -alcohol polyethylene glycol ether (3.5 EO)	<b>NOVEL 810-3.5</b>	100	64 <sup>1)</sup>	liquid	USA
C <sub>8</sub> -C <sub>10</sub> -alcohol polyethylene glycol ethers (4.5 EO)	<b>ALFONIC 810-4.5</b>	100	71 <sup>1)</sup>	liquid	USA
	<b>NOVEL 810-4.5</b>	100	72 <sup>1)</sup>	liquid	USA
C <sub>8</sub> -C <sub>10</sub> -alcohol polyethylene glycol ethers (5 EO)	<b>AEO 5-80</b>	100	42–50 <sup>1)</sup>	liquid	Asia
	<b>NOVEL 810 FD-5</b>	100	58 <sup>1)</sup>	liquid	USA
C <sub>8</sub> -C <sub>10</sub> -alcohol polyethylene glycol ethers (6 EO)	<b>ALFONIC 810-6</b>	100	68 <sup>2)</sup>	liquid	USA
	<b>NOVEL 810 FD-6</b>	100	70 <sup>2)</sup>	liquid	USA
C <sub>8</sub> -C <sub>10</sub> -alcohol polyethylene glycol ethers (7 EO)	<b>NOVEL 810 FD-7</b>	100	79 <sup>2)</sup>	liquid	USA
	<b>BIODAC 78N</b>	100	77–82 <sup>2)</sup>	liquid	Europe
C <sub>10</sub> -alcohol polyethylene glycol ether (1 EO)	<b>ALFONIC 12-1</b>	100	—	liquid	USA
C <sub>10</sub> -alcohol polyethylene glycol ether (3 EO)	<b>NOVEL 10-3</b>	100	64 <sup>1)</sup>	liquid	USA
C <sub>10</sub> -alcohol polyethylene glycol ethers (4 EO)	<b>MARLIPAL 10/4</b>	100	59–62 <sup>5)</sup>	liquid	Europe
	<b>NOVEL 10-4</b>	100	66 <sup>2)</sup>	liquid	USA
C <sub>10</sub> -alcohol polyethylene glycol ethers (8 EO)	<b>ALFONIC 10-8</b>	100	83 <sup>2)</sup>	liquid	USA
	<b>MARLIPAL 10/8</b>	100	80–86 <sup>10)</sup>	liquid	Europe
C <sub>10</sub> -C <sub>12</sub> -alcohol polyethylene glycol ether (3 EO)	<b>ALFONIC 1012-3</b>	100	59 <sup>1)</sup>	liquid	USA
C <sub>10</sub> -C <sub>12</sub> -alcohol polyethylene glycol ethers (5 EO)	<b>ALFONIC 1012-5</b>	100	43 <sup>2)</sup>	liquid	USA
	<b>NOVEL 1012-5</b>	100	73 <sup>1)</sup>	liquid	USA

<sup>1)</sup> 10% in 25% BDG solution

<sup>2)</sup> 1% in deionized water

<sup>3)</sup> 1% in 10% NaCl solution

<sup>4)</sup> hydroxyl number in mg KOH/g

<sup>5)</sup> 17% in 25% BDG solution

<sup>10)</sup> 2% in deionized water

<sup>11)</sup> 1% in 5% NaCl solution

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>10</sub> -C <sub>12</sub> -alcohol polyethylene glycol ethers (6 EO)	ALFONIC 1012-6	100	54 <sup>2)</sup>	liquid	USA
	MARLIPAL 1012/6	100	52-55 <sup>10)</sup>	liquid	Europe
	NOVEL 1012-6	100	63 <sup>2)</sup>	liquid	USA
C <sub>10</sub> -C <sub>12</sub> -alcohol polyethylene glycol ether (9 EO)	NOVEL 1012-9	100	60 <sup>3)</sup>	liquid	USA
C <sub>10</sub> -C <sub>12</sub> -alcohol polyethylene glycol ether (12 EO)	AEO12-1012HA	100	81.5-84.5 <sup>11)</sup>	solid	Asia
C <sub>10</sub> -C <sub>12</sub> -alcohol polyethylene glycol ether (21 EO)	NOVEL 1012 GB-21	100	74-79 <sup>3)</sup>	solid	USA
C <sub>12</sub> -alcohol polyethylene glycol ether (1 EO)	AEO 1-12	100	235-243 <sup>4)</sup>	liquid	Asia
C <sub>12</sub> -alcohol polyethylene glycol ether (4 EO)	MARLOWET BL	100	67-70 <sup>1)</sup>	liquid	Europe
C <sub>12</sub> -alcohol polyethylene glycol ether (6 EO)	AEO 6-12	100	40-43 <sup>2)</sup>	liquid	Asia
C <sub>12</sub> -alcohol polyethylene glycol ethers (7 EO)	MARLIPAL MG	100	60-63 <sup>10)</sup>	liquid	Europe
	AEO 7-12	100	59-62 <sup>2)</sup>	liquid	Asia
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether (1 EO)	LORODAC 1-24	100	—	liquid	Europe
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ethers (2 EO)	ALFONIC 1214 GC-2	100	51 <sup>1)</sup>	liquid	USA
	LORODAC 2-24	100	50-52 <sup>1)</sup>	liquid	Europe
	MARLIPAL 24/20	100	49-51 <sup>1)</sup>	liquid	Europe
	NOVEL 1412-2	100	54 <sup>2)</sup>	liquid	USA
	SLOVASOL 242	100	49-52 <sup>1)</sup>	liquid	Europe
	AEO 2-24S	100	—	liquid	Asia
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ethers (3 EO)	ALFONIC 1214 GC-3	100	61 <sup>1)</sup>	liquid	USA
	ALFONIC 1412-3	100	60 <sup>1)</sup>	liquid	USA
	NOVEL 1412-3	100	59 <sup>1)</sup>	liquid	USA
	LORODAC 3-24	100	60-62 <sup>1)</sup>	liquid	Europe
	MARLIPAL 24/30	100	59-61 <sup>1)</sup>	liquid	Europe
	SLOVAPOL N 243	100	57-61 <sup>1)</sup>	liquid	Europe
	SLOVASOL 243	100	58-62 <sup>1)</sup>	liquid	Europe
	SLOVASOL 243 T	100	57-61 <sup>1)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ethers (4 EO)	AEO 3-24S	100	59-63 <sup>1)</sup>	liquid	Asia
	LORODAC 4-24	100	64-66 <sup>1)</sup>	liquid	Europe
	MARLIPAL 24/40	100	66-68 <sup>1)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ethers (5 EO)	MARLOSOL PK 9040	100	66-68 <sup>1)</sup>	liquid	Europe
	MARLIPAL 24/50	100	72-74 <sup>1)</sup>	liquid	Europe
	SLOVASOL 245	100	71-75 <sup>1)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ethers (6 EO)	LORODAC 6-24	100	41-42 <sup>2)</sup>	liquid	Europe
	MARLIPAL 24/60	100	76-78 <sup>1)</sup>	liquid	Europe

<sup>1)</sup> 10% in 25% BDG solution<sup>2)</sup> 1% in deionized water<sup>10)</sup> 2% in deionized water

## Linear alcohol ethoxylates

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ethers (6.5 EO)	<b>LORODAC 6.5-24</b>	100	51-53 <sup>2)</sup>	liquid	Europe
	<b>AEO 6.5-24Z</b>	100	43-47 <sup>2)</sup>	liquid	Asia
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ethers (7 EO)	<b>ALFONIC 1412-7</b>	100	54 <sup>2)</sup>	liquid	USA
	<b>NOVEL 1412-7</b>	100	52 <sup>2)</sup>	liquid	USA
	<b>LORODAC 7-24</b>	100	57-59 <sup>2)</sup>	liquid	Europe
	<b>MARLIPAL 24/70</b>	100	53-56 <sup>10)</sup>	liquid	Europe
	<b>MARLIPAL 24/79</b>	90	53-56 <sup>10)</sup>	liquid	Europe
	<b>SLOVASOL 247</b>	100	78-81 <sup>1)</sup>	liquid	Europe
	<b>AEO 7-24S</b>	100	55-58 <sup>2)</sup>	liquid	Asia
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether (8 EO)	<b>SLOVASOL 248</b>	100	67-71 <sup>2)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ethers (9 EO)	<b>ALFONIC 1412-9</b>	100	52.5 <sup>3)</sup>	solid	USA
	<b>NOVEL 1412-9</b>	100	50 <sup>3)</sup>	solid	USA
	<b>MARLIPAL 24/90</b>	100	81-83 <sup>10)</sup>	solid	Europe
	<b>MARLIPAL 24/99</b>	90	81-83 <sup>10)</sup>	liquid	Europe
	<b>LORODAC 9-24</b>	100	79-81 <sup>2)</sup>	paste	Europe
	<b>AEO 9-24S</b>	100	78-82 <sup>2)</sup>	liquid	Asia
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether (10 EO)	<b>MARLIPAL 24/100</b>	100	ca. 94 <sup>10)</sup>	solid	Europe
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether	<b>MARLIPAL 24/939</b>	90	74-76 <sup>1)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ethers (11 EO)	<b>MARLIPAL 24/110</b>	100	—	paste	Europe
	<b>MARLIPAL 24/119</b>	90	—	liquid	Europe
	<b>NOVEL 1412-11</b>	100	63.5 <sup>3)</sup>	solid	USA
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ethers (12 EO)	<b>LORODAC 12-24</b>	100	79-81 <sup>11)</sup>	solid	Europe
	<b>MARLIPAL 24/120</b>	100	—	paste	Europe
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether (20 EO)	<b>LORODAC 20-24</b>	100	75-77 <sup>3)</sup>	solid	Europe
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ethers (30 EO)	<b>SLOVASOL 2430</b>	100	—	solid	Europe
	<b>SLOVASOL 2430/7</b>	70	—	liquid	Europe
C <sub>12</sub> -C <sub>16</sub> -alcohol polyethylene glycol ethers (1 EO)	<b>ALFONIC 1216 CO-1</b>	100	31 <sup>1)</sup>	liquid	USA
	<b>ALFONIC 1216 CO-O-1</b>	100	31 <sup>1)</sup>	liquid	USA
C <sub>12</sub> -C <sub>16</sub> -alcohol polyethylene glycol ethers (2 EO)	<b>AEO 2-24Z</b>	100	50-52 <sup>1)</sup>	liquid	Asia
	<b>ALFONIC 1216 CO-2</b>	100	48 <sup>1)</sup>	liquid	USA
	<b>ALFONIC 1216 CO-O-2</b>	100	50 <sup>1)</sup>	liquid	USA
	<b>NOVEL 1216CO-2</b>	100	50 <sup>1)</sup>	liquid	USA

<sup>1)</sup> 10% in 25% BDG solution<sup>2)</sup> 1% in deionized water<sup>3)</sup> 1% in 10% NaCl solution<sup>10)</sup> 2% in deionized water<sup>11)</sup> 1% in 5% NaCl solution

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>12</sub> -C <sub>16</sub> -alcohol polyethylene glycol ethers (3 EO)	<b>ALFONIC 1216 CO-3</b>	100	62 <sup>1)</sup>	liquid	USA
	<b>NOVEL 1216 CO-3</b>	100	61 <sup>1)</sup>	liquid	USA
	<b>ALFONIC 1216 CO-O-3</b>	100	62 <sup>1)</sup>	liquid	USA
C <sub>12</sub> -C <sub>16</sub> -alcohol polyethylene glycol ether (4 EO)	<b>AEO 4-24Z</b>	100	66-69 <sup>1)</sup>	liquid	Asia
C <sub>12</sub> -C <sub>16</sub> -alcohol polyethylene glycol ether (5 EO)	<b>AEO 5-24Z</b>	100	70-74 <sup>1)</sup>	liquid	Asia
C <sub>12</sub> -C <sub>16</sub> -alcohol polyethylene glycol ether (6 EO)	<b>AEO 6-24Z</b>	100	75-78 <sup>1)</sup>	liquid	Asia
C <sub>12</sub> -C <sub>16</sub> -alcohol polyethylene glycol ethers (7 EO)	<b>AEO 7-24Z</b>	100	55-58 <sup>2)</sup>	liquid	Asia
	<b>ALFONIC 1216 CO-7</b>	100	57 <sup>2)</sup>	liquid	USA
	<b>NOVEL 1216 CO-7</b>	100	60 <sup>2)</sup>	liquid	USA
C <sub>12</sub> -C <sub>16</sub> -alcohol polyethylene glycol ethers (9 EO)	<b>AEO 9-24Z</b>	100	78-82 <sup>2)</sup>	paste	Asia
	<b>ALFONIC 1216CO-9</b>	100	75 <sup>2)</sup>	solid	USA
C <sub>12</sub> -C <sub>16</sub> -alcohol polyethylene glycol ethers (12 EO)	<b>AEO 12-24Z</b>	100	75-85 <sup>11)</sup>	solid	Asia
	<b>ALFONIC 1216 CO-12</b>	100	72 <sup>3)</sup>	solid	USA
C <sub>12</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (5.4 EO)	<b>ALFONIC 1218-5.4</b>	100	74 <sup>1)</sup>	liquid	USA
C <sub>12</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (7 EO)	<b>NOVEL 1218-7</b>	100	49-59 <sup>1)</sup>	solid	USA
C <sub>14</sub> -C <sub>16</sub> -alcohol polyethylene glycol ether (7 EO)	<b>NOVEL 1416-7</b>	100	49 <sup>2)</sup>	solid	USA
C <sub>16</sub> -alcohol polyethylene glycol ether (3 EO)	<b>NOVEL 16-3</b>	100	63 <sup>1)</sup>	solid	USA
C <sub>16</sub> -alcohol polyethylene glycol ether (20 EO)	<b>NOVEL 16-20</b>	100	—	solid	USA
C <sub>16</sub> -C <sub>18</sub> -alcohol ethylene glycol ether	<b>MARLIPAL 1618/1</b>	100	58-61 <sup>7)</sup>	liquid	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (2 EO)	<b>EMULDAC AS-2</b>	100	55-57 <sup>1)</sup>	solid	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (3.5 EO)	<b>EMULDAC AS-3.5</b>	100	61-63 <sup>5)</sup>	solid	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ethers (6 EO)	<b>ALFONIC 1618-6</b>	100	77.5 <sup>3)</sup>	liquid	USA
	<b>EMULDAC AS-6</b>	100	77-79 <sup>1)</sup>	solid	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (9 EO)	<b>MARLIPAL 1618/9</b>	100	85-88 <sup>1)</sup>	solid	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ethers (11 EO)	<b>EMULDAC AS-11</b>	100	88-90 <sup>2)</sup>	solid	Europe
	<b>MARLIPAL 1618/11</b>	100	84-90 <sup>10)</sup>	in drums: solid in bulk: liquid	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (15 EO)	<b>EMULDAC AS-18</b>	100	74-76 <sup>3)</sup>	solid	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ethers (18 EO)	<b>EMULDAC AS-20</b>	100	75-77 <sup>3)</sup>	solid	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ethers (20 EO)	<b>GALENOL 2100</b>	100	—	solid	USA
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ethers (21 EO)	<b>EMULDAC AS-22</b>	100	78-80 <sup>3)</sup>	solid	Europe

1) 10% in 25% BDG solution

2) 1% in deionized water

3) 1% in 10% NaCl solution

4) hydroxyl number in mg KOH/g

5) 17% in 25% BDG solution

7) 5% in 25% BDG solution

10) 2% in deionized water

11) 1% in 5% NaCl solution

## Linear alcohol ethoxylates

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (25 EO)	<b>NOVEL 1618 CG-25</b>	100	—	solid	USA
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (28 EO)	<b>NOVEL 1618 CG-28</b>	100	—	solid	USA
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (29 EO)	<b>EMULDAC AS-25</b>	100	76–80 <sup>3)</sup>	flakes	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (29 EO) + polyethylene glycol 4000	<b>EMULGANTE OS</b>	100	—	flakes	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (30 EO)	<b>GALENOL 2800</b>	100	—	solid	USA
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (50 EO)	<b>EMULDAC ALCS 100</b>	100	74–78 <sup>3)</sup>	flakes	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ether (55 EO)	<b>AEO 80-685</b>	100	14–25 <sup>4)</sup>	flakes	Asia
C <sub>16</sub> -C <sub>18</sub> -alcohol polyethylene glycol ethers (80 EO)	<b>EMULDAC AS-80</b>	100	73–77 <sup>3)</sup>	flakes	Europe
	<b>NOVEL 1618-80</b>	100	—	solid	USA
Cetyl/Oleyl alcohol polyethylene glycol ethers (2 EO)	<b>EMULGANTE CO-2</b>	100	54–56 <sup>1)</sup>	paste	Europe
	<b>SLOVAPOL N 182</b>	100	45–50 <sup>1)</sup>	liquid	Europe
Cetyl/Oleyl alcohol polyethylene glycol ethers (5 EO)	<b>EMULGANTE CO-5</b>	100	63–67 <sup>5)</sup>	paste	Europe
	<b>SLOVAPOL N 185</b>	100	67–73 <sup>1)</sup>	liquid paste	Europe
Cetyl/Oleyl alcohol polyethylene glycol ether (10 EO)	<b>EMULGANTE CO-10</b>	100	67–70 <sup>2)</sup>	paste	Europe
Cetyl/Oleyl alcohol polyethylene glycol ether (18 EO)	<b>SLOVAPOL N 6818</b>	100	—	solid	Europe
Cetyl/Oleyl alcohol polyethylene glycol ether (20 EO)	<b>SLOVAPOL N 6820</b>	100	—	solid	Europe
Cetyl/Oleyl alcohol polyethylene glycol ether (55 EO)	<b>EMULGANTE CO-55</b>	100	—	flakes	Europe
Oleyl alcohol polyethylene glycol ether	<b>MARLIPAL SU</b>	100	74–78 <sup>3)</sup>	solid	Europe
C <sub>18</sub> -alcohol polyethylene glycol ether (1 EO)	<b>NOVEL 18-1</b>	100	—	solid	USA
C <sub>18</sub> -alcohol polyethylene glycol ethers (2 EO)	<b>ALFONIC 18-2</b>	100	50 <sup>1)</sup>	solid	USA
	<b>NOVEL 18-2</b>	100	48 <sup>1)</sup>	solid	USA
C <sub>18</sub> -alcohol polyethylene glycol ether (20 EO)	<b>NOVEL 18-20</b>	100	—	solid	USA
C <sub>22</sub> -alcohol polyethylene glycol ether (4 EO)	<b>NOVEL 22-4</b>	100	73 <sup>1)</sup>	solid	USA
C <sub>22</sub> -alcohol polyethylene glycol ether (25 EO)	<b>NOVEL 22-25</b>	100	73 <sup>3)</sup>	solid	USA

<sup>1)</sup> 10% in 25% BDG solution

<sup>2)</sup> 1% in deionized water

<sup>3)</sup> 1% in 10% NaCl solution

<sup>5)</sup> 17% in 25% BDG solution



## Branched/semi branched alcohol ethoxylates

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>8</sub> -alcohol polyethylene glycol ether (6.5 EO)	<b>NOVEL 8i-6.5</b>	100	73 <sup>2)</sup>	liquid	USA
C <sub>9</sub> -C <sub>11</sub> -alcohol polyethylene glycol ether (5 EO)	<b>LIALET 91-5N</b>	100	67–69 <sup>1)</sup>	liquid	Europe
C <sub>10</sub> -alcohol polyethylene glycol ether (3 EO)	<b>BIODAC 310</b>	100	56–57 <sup>1)</sup>	liquid	Europe
C <sub>10</sub> -alcohol polyethylene glycol ether (4 EO)	<b>BIODAC 410</b>	100	67–68 <sup>1)</sup>	liquid	Europe
C <sub>10</sub> -alcohol polyethylene glycol ether (5 EO)	<b>BIODAC 510</b>	100	36–38 <sup>2)</sup>	liquid	Europe
C <sub>10</sub> -alcohol polyethylene glycol ether (6.5 EO)	<b>BIODAC 610</b>	100	54–56 <sup>2)</sup>	liquid	Europe
C <sub>10</sub> -alcohol polyethylene glycol ether (7 EO)	<b>BIODAC ES-712-10</b>	100	40–42 <sup>2)</sup>	liquid	Europe
C <sub>10</sub> -alcohol polyethylene glycol ether (7.5 EO)	<b>BIODAC 710</b>	100	64–66 <sup>2)</sup>	liquid	Europe
C <sub>11</sub> -alcohol polyethylene glycol ether (3 EO)	<b>LIALET 111-3</b>	100	52–53 <sup>1)</sup>	liquid	Europe
C <sub>11</sub> -alcohol polyethylene glycol ether (5.5 EO)	<b>LIALET 111-5.5</b>	100	69–71 <sup>1)</sup>	liquid	Europe
C <sub>11</sub> -alcohol polyethylene glycol ethers (7 EO)	<b>LIALET 111-7</b>	100	53–55 <sup>2)</sup>	liquid	Europe
	<b>LIALET-7 90%</b>	90	53–55 <sup>2)</sup>	liquid	Europe
C <sub>11</sub> -alcohol polyethylene glycol ethers (8 EO)	<b>ISALCHEM 11-8</b>	100	60–62 <sup>2)</sup>	liquid	Europe
	<b>LIALET 111-8</b>	100	64–66 <sup>2)</sup>	liquid	Europe
	<b>LIALET-8 85%</b>	85	64–66 <sup>2)</sup>	liquid	Europe
C <sub>11</sub> -alcohol polyethylene glycol ethers (10 EO)	<b>LIALET 111-10</b>	100	84–86 <sup>2)</sup>	liquid	Europe, Asia
	<b>LIALET 111-10 85%</b>	85	84–86 <sup>2)</sup>	liquid	Europe
C <sub>11</sub> -alcohol polyethylene glycol ether (15 EO)	<b>NONIDAC 11P15</b>	100	70–72 <sup>3)</sup>	solid	Europe
C <sub>11</sub> -alcohol polyethylene glycol ethers (21 EO)	<b>LIALET 111/210</b>	100	73–77 <sup>3)</sup>	solid	Asia
	<b>LIALET 111-217</b>	70	73–77 <sup>3)</sup>	liquid	Asia
	<b>NONIDAC 11P21 70%</b>	70	—	liquid	Europe
C <sub>11</sub> -alcohol polyethylene glycol ether (30 EO)	<b>NONIDAC 11P30-70</b>	70	—	liquid	Europe
C <sub>11</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (3 EO)	<b>LIALET 113/30N</b>	100	52–56 <sup>1)</sup>	liquid	Asia
C <sub>11</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (5 EO)	<b>LIALET 113/50N</b>	100	66–70 <sup>1)</sup>	liquid	Asia
C <sub>11</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (5.5 EO)	<b>MARLIPAL 31/55</b>	100	63–65 <sup>1)</sup>	liquid	Europe
C <sub>11</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (6 EO)	<b>MARLIPAL 31/60</b>	100	68–69 <sup>1)</sup>	liquid	Europe
	<b>MARLIPAL 31/685</b>	85	68–69 <sup>1)</sup>	liquid	Europe
C <sub>11</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (7 EO)	<b>LIALET 113/70N</b>	100	51–55 <sup>2)</sup>	liquid	Asia

<sup>1)</sup> 10% in 25% BDG solution<sup>2)</sup> 1% in deionized water<sup>3)</sup> 1% in 10% NaCl solution

## Branched/semi branched alcohol ethoxylates

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>11</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (9 EO)	<b>MARLIPAL 31/90</b>	100	54-56 <sup>2)</sup>	liquid	Europe
	<b>MARLIPAL 31/985</b>	85	54-56 <sup>2)</sup>	liquid	Europe
C <sub>11</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (10 EO)	<b>MARLIPAL 31/100</b>	100	64-66 <sup>2)</sup>	liquid	Europe
	<b>MARLIPAL 31/1090</b>	90	64-66 <sup>2)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>13</sub> -alcohol ethylene glycol ethers	<b>LIALET 123-1</b>	100	45-47 <sup>7)</sup>	liquid	Europe
	<b>NOVEL 23 E1</b>	100	29 <sup>1)</sup>	liquid	USA
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (1.5 EO)	<b>NOVEL 23 AE1.5</b>	100	40 <sup>1)</sup>	liquid	USA
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (2 EO)	<b>LIALET 123-2</b>	100	40-42 <sup>1)</sup>	liquid	Europe
	<b>NOVEL 23 E2</b>	100	54 <sup>1)</sup>	liquid	USA
	<b>SAFOL 23 E2</b>	100	48-51 <sup>1)</sup>	liquid	Europe, Asia
	<b>SAFOL EN 20</b>	100	—	liquid	Asia
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (3 EO)	<b>LIALET 123-3</b>	100	52-54 <sup>1)</sup>	liquid	Europe
	<b>NOVEL 23 E3</b>	100	66 <sup>1)</sup>	liquid	USA
	<b>SAFOL 23 E3</b>	100	58-60 <sup>1)</sup>	liquid	USA, Europe, Asia
	<b>SAFOL EN 30</b>	100	57-61 <sup>1)</sup>	liquid	Asia
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (4 EO)	<b>NOVEL 23 E4</b>	100	72 <sup>1)</sup>	liquid	USA
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (5 EO)	<b>LIALET 123-5</b>	100	66-68 <sup>1)</sup>	liquid	Europe
	<b>LIALET 123-5-86</b>	86	66-68 <sup>1)</sup>	liquid	Europe
	<b>MARLOSOL TD 50</b>	100	66-69 <sup>1)</sup>	liquid	Asia
	<b>NOVEL 23 E5</b>	100	77 <sup>1)</sup>	liquid	USA
	<b>SAFOL 23 E5</b>	100	70-72 <sup>1)</sup>	liquid	USA, Europe, Asia
	<b>SAFOL EN 50</b>	100	69-73 <sup>1)</sup>	liquid	Asia
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (6.5 EO)	<b>NOVEL 23 E6.5</b>	100	50 <sup>2)</sup>	liquid	USA
	<b>SAFOL 23 E6.5</b>	100	44-46 <sup>2)</sup>	liquid	USA, Europe
	<b>SAFOL 23 E6.5-90%</b>	100	44-46 <sup>2)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (7 EO)	<b>MARLOSOL TD 70</b>	100	75-78 <sup>1)</sup>	liquid	Asia
	<b>NOVEL 23 E7</b>	100	60 <sup>2)</sup>	liquid	USA
	<b>SAFOL 23 E7</b>	100	54-56 <sup>2)</sup>	liquid	USA, Europe, Asia
	<b>SAFOL 23 E7-90%</b>	90	54-56 <sup>2)</sup>	liquid	Europe
	<b>SAFOL EN 70</b>	100	51-55 <sup>2)</sup>	liquid	Asia

<sup>1)</sup> 10% in 25% BDG solution<sup>2)</sup> 1% in deionized water<sup>7)</sup> 5% in 25% BDG solution

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (8 EO)	<b>LIALET 123-8</b>	100	57-59 <sup>2)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (9 EO)	<b>COSMACOL N II 9</b>	100	58-68 <sup>11)</sup>	liquid	Europe
	<b>MARLOSOL TD 90</b>	100	68-71 <sup>2)</sup>	liquid	Asia
	<b>NOVEL 23 E9</b>	100	83 <sup>2)</sup>	liquid	USA
	<b>SAFOL 23 E9</b>	100	80 <sup>2)</sup>	liquid, paste	USA, Europe, Asia
	<b>SAFOL 23 E9-90%</b>	90	79-82 <sup>2)</sup>	liquid	Europe
	<b>SAFOL EN 90</b>	100	49-53 <sup>3)</sup>	liquid/paste	Asia
	<b>SAFOL EN 99</b>	100	49-53 <sup>3)</sup>	liquid	Asia
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (9.5 EO)	<b>LIALET 123-9.5</b>	100	70-72 <sup>2)</sup>	liquid/paste	Europe
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (10 EO)	<b>LIALET 123-10</b>	100	79-81 <sup>2)</sup>	liquid/paste	Europe
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (12 EO)	<b>NOVEL 23E12</b>	100	68 <sup>3)</sup>	liquid	USA
	<b>SAFOL 23 E12</b>	100	81.5 <sup>3)</sup>	liquid	USA
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (20 EO)	<b>LIALET 123-20</b>	100	49-53 <sup>4)</sup>	paste	Europe
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (30 EO)	<b>NOVEL 23 E30</b>	100	—	solid	USA
	<b>NOVEL 23 E3070</b>	70	—	liquid	USA
	<b>SAFOL EN 300</b>	100	—	flakes	Asia
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ethers (40 EO)	<b>NOVEL 23 E40</b>	100	—	solid	USA
	<b>NOVEL 23 E4070</b>	70	—	liquid	USA
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (50 EO)	<b>NOVEL 23 E50</b>	100	—	solid	USA
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (100 EO)	<b>NOVEL 23 E100</b>	100	—	solid	USA
C <sub>12</sub> -C <sub>15</sub> -alcohol polyethylene glycol ethers (3 EO)	<b>LIALET 125-3</b>	100	53-55 <sup>1)</sup>	liquid	Europe
	<b>SLOVASOL 253</b>	100	52-55 <sup>1)</sup>	liquid	Europe
	<b>AE03-25 AN</b>	100	59 <sup>1)</sup>	liquid	Asia
C <sub>12</sub> -C <sub>15</sub> -alcohol polyethylene glycol ethers (5 EO)	<b>LIALET 125-5</b>	100	67-69 <sup>1)</sup>	liquid	Europe, Asia
	<b>SLOVASOL 255</b>	100	67-69 <sup>1)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>15</sub> -alcohol polyethylene glycol ethers (7 EO)	<b>LIALET 125-7</b>	100	76-78 <sup>1)</sup>	liquid	Europe
	<b>LIALET 125-7 90%</b>	90	76-78 <sup>1)</sup>	liquid	Europe
	<b>SLOVASOL 257</b>	100	75-78 <sup>1)</sup>	liquid	Europe
	<b>SLOVASOL 257/9</b>	90	74-78 <sup>1)</sup>	liquid	Europe

<sup>1)</sup> 10% in 25% BDG solution<sup>2)</sup> 1% in deionized water<sup>3)</sup> 1% in 10% NaCl solution<sup>4)</sup> hydroxyl number in mg KOH/g<sup>11)</sup> 1% in 5% NaCl solution

## Branched/semi branched alcohol ethoxylates

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>12</sub> -C <sub>15</sub> -alcohol polyethylene glycol ethers (8 EO)	LIALET 125-8	100	55-59 <sup>2)</sup>	liquid	Europe
	LIALET 125-8 85%	85	55-59 <sup>2)</sup>	liquid	Europe
	SLOVASOL 258	100	55-59 <sup>2)</sup>	liquid	Europe
	SLOVASOL 258/9	90	55-59 <sup>2)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>15</sub> -alcohol polyethylene glycol ethers (9 EO)	AE09-25 AN	100	73-77 <sup>2)</sup>	liquid/paste	Asia
	LIALET 125-9	100	60-62 <sup>2)</sup>	paste	Europe
	LIALET 125-9 90%	90	60-62 <sup>2)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>15</sub> -alcohol polyethylene glycol ethers (10 EO)	LIALET 125-10	100	71-75 <sup>2)</sup>	paste	Asia
	SLOVASOL 2510	100	69-73 <sup>2)</sup>	paste	Europe
	SLOVASOL 2510/9	90	69-73 <sup>2)</sup>	paste	Europe
C <sub>12</sub> -C <sub>15</sub> -alcohol polyethylene glycol ethers (20 EO)	SLOVASOL 2520	100	—	solid	Europe
	SLOVASOL 2520/2	25	70-76 <sup>3)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>15</sub> -alcohol polyethylene glycol ether mixture	SLOVASOL 255.13	82	84-88 <sup>1)</sup>	liquid	Europe
C <sub>12</sub> -C <sub>16</sub> -alcohol polyethylene glycol ether (2 EO)	SAFOL 236 E2	100	46 <sup>1)</sup>	liquid	USA
C <sub>13</sub> -alcohol polyethylene glycol ethers	MARLIPAL NE	100	52-55 <sup>10)</sup>	liquid	Europe
	MARLIPAL NE 90%	90	52-55 <sup>10)</sup>	liquid	Europe
C <sub>13</sub> -alcohol polyethylene glycol ether (1.5 EO)	MARLOSOL TA 15	100	50-53 <sup>7)</sup>	liquid	Asia
C <sub>13</sub> -alcohol polyethylene glycol ether (2.5 EO)	MULTISO 13/25	100	43-47 <sup>1)</sup>	liquid	Asia
C <sub>13</sub> -alcohol polyethylene glycol ethers (3 EO)	ALFONIC TDA-3	100	43 <sup>1)</sup>	liquid	USA
	MARLIPAL O13/30	100	48-51 <sup>1)</sup>	liquid	Europe
	MARLOSOL TA 30	100	48-51 <sup>1)</sup>	liquid	Asia
	MARLOSOL TA 3030	100	48-51 <sup>1)</sup>	liquid	Europe
	MULTISO 13/30	100	48-51 <sup>1)</sup>	liquid	Asia
	NOVEL TDA-3	100	49 <sup>1)</sup>	liquid	USA
	SLOVASOL 133	100	44-49 <sup>1)</sup>	liquid	Europe
	TRIDAC ISO-3	100	50-52 <sup>1)</sup>	liquid	Europe
C <sub>13</sub> -alcohol polyethylene glycol ether (3.1 EO)	ALFONIC TDA-3.1	100	43 <sup>1)</sup>	liquid	USA
C <sub>13</sub> -alcohol polyethylene glycol ethers (4 EO)	MARLIPAL O13/40	100	58-61 <sup>1)</sup>	liquid	Europe
	MULTISO 13/40	100	58-61 <sup>1)</sup>	liquid	Asia
	NOVEL TDA-4	100	58 <sup>1)</sup>	liquid	USA
C <sub>13</sub> -alcohol polyethylene glycol ethers (5 EO)	MARLIPAL O13/50	100	64-67 <sup>1)</sup>	liquid	Europe
	MARLOSOL TA 3050	100	64-67 <sup>1)</sup>	liquid	Europe
	MARLOSOL TA 50	100	64-66 <sup>1)</sup>	liquid	Asia

<sup>1)</sup> 10% in 25% BDG solution<sup>2)</sup> 1% in deionized water<sup>3)</sup> 1% in 10% NaCl solution<sup>7)</sup> 5% in 25% BDG solution<sup>10)</sup> 2% in deionized water

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
	<b>MULTISO 13/50</b>	100	64–66 <sup>1)</sup>	liquid	Asia
	<b>NOVEL TDA-5</b>	100	64 <sup>1)</sup>	liquid	USA
	<b>SLOVASOL 135</b>	100	61–65 <sup>1)</sup>	liquid	Europe
	<b>TRIDAC ISO-5</b>	100	64–66 <sup>1)</sup>	liquid	Europe
	<b>TRIDAC ISO-5 D</b>	100	64–66 <sup>1)</sup>	liquid	Europe
C <sub>13</sub> -alcohol polyethylene glycol ethers (6 EO)	<b>ALFONIC TDA-6</b>	100	70 <sup>1)</sup>	liquid	USA
	<b>MARLIPAL O13/60</b>	100	69–72 <sup>1)</sup>	liquid	Europe
	<b>MARLIPAL O13/69</b>	90	69–72 <sup>1)</sup>	liquid	Europe
	<b>MARLOSOL TA 60</b>	100	69–71 <sup>1)</sup>	liquid	Asia
	<b>MULTISO 13/60</b>	100	69–71 <sup>1)</sup>	liquid	Asia
	<b>NOVEL TDA-6</b>	100	70 <sup>1)</sup>	liquid	USA
	<b>SLOVASOL 136</b>	100	67–71 <sup>1)</sup>	liquid	Europe
	<b>TRIDAC ISO-6</b>	100	72–74 <sup>1)</sup>	liquid	Europe
C <sub>13</sub> -alcohol polyethylene glycol ethers (7 EO)	<b>ALFONIC TDA-7</b>	100	75 <sup>1)</sup>	liquid	USA
	<b>MARLIPAL O13/70</b>	100	72–75 <sup>1)</sup>	liquid	Europe
	<b>MARLIPAL O13/79</b>	90	72–75 <sup>1)</sup>	liquid	Europe
	<b>MARLOSOL TA 3070</b>	100	72–75 <sup>1)</sup>	liquid	Europe
	<b>MARLOSOL TA 70</b>	100	73–75 <sup>1)</sup>	liquid	Asia
	<b>MULTISO 13/70</b>	100	73–75 <sup>1)</sup>	liquid	Asia
	<b>NOVEL TDA-7</b>	100	74 <sup>1)</sup>	liquid	USA
	<b>SLOVASOL 137</b>	100	70–74 <sup>1)</sup>	liquid	Europe
C <sub>13</sub> -alcohol polyethylene glycol ethers (8 EO)	<b>ALFONIC TDA-8</b>	100	77 <sup>1)</sup>	liquid	USA
	<b>MARLIPAL O13/80</b>	100	76–78 <sup>1)</sup>	liquid	Europe
	<b>MARLIPAL O13/89</b>	90	76–78 <sup>1)</sup>	liquid	Europe
	<b>MARLOSOL TA 80</b>	100	76–78 <sup>1)</sup>	liquid	Asia
	<b>MARLOSOL TA 89</b>	90	76–78 <sup>1)</sup>	liquid	Asia
	<b>MULTISO 13/80</b>	100	76–78 <sup>1)</sup>	liquid	Asia
	<b>MULTISO 13/89</b>	90	76–78 <sup>1)</sup>	liquid	Asia
	<b>NOVEL TDA-8</b>	100	78 <sup>1)</sup>	liquid	USA
	<b>TRIDAC ISO-8</b>	100	76–78 <sup>1)</sup>	liquid	Europe
	<b>TRIDAC ISO-8 85%</b>	85	76–78 <sup>1)</sup>	liquid	Europe
<b>TRIDAC ISO-8 90%</b>	90	76–78 <sup>1)</sup>	liquid	Europe	
C <sub>13</sub> -alcohol polyethylene glycol ether (8.5 EO)	<b>ALFONIC TDA-8.5</b>	100	79 <sup>1)</sup>	liquid	USA

<sup>1)</sup> 10% in 25% BDG solution

## Branched/semi branched alcohol ethoxylates

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>13</sub> -alcohol polyethylene glycol ethers (9 EO)	<b>ALFONIC TDA-9</b>	100	56 <sup>2)</sup>	liquid/paste	USA
	<b>MARLIPAL O13/90</b>	100	56–59 <sup>10)</sup>	liquid/paste	Europe
	<b>MARLIPAL O13/99</b>	90	56–59 <sup>10)</sup>	liquid	Europe
	<b>MARLOSOL TA 3090</b>	100	56–59 <sup>10)</sup>	liquid	Europe
	<b>MARLOSOL TA 90</b>	100	—	liquid	Asia
	<b>MULTISO 13/90</b>	100	57–59 <sup>2)</sup>	liquid/paste	Asia
	<b>MULTISO 13/99</b>	90	57–59 <sup>2)</sup>	liquid	Asia
	<b>NOVEL TDA-9</b>	100	58 <sup>2)</sup>	liquid/paste	USA
	<b>TRIDAC ISO-9 H</b>	100	58–60 <sup>2)</sup>	liquid	Europe
	<b>TRIDAC ISO-9 H 90%</b>	90	58–60 <sup>2)</sup>	liquid	Europe
	<b>TRIDAC ISO-9 H 85%</b>	85	58–60 <sup>2)</sup>	liquid	Europe
	<b>SLOVASOL 139</b>	100	57–61 <sup>2)</sup>	liquid	Europe
	C <sub>13</sub> -alcohol polyethylene glycol ether (9.5 EO)	<b>MULTISO 13/108</b>	82	68–72 <sup>2)</sup>	liquid
C <sub>13</sub> -alcohol polyethylene glycol ethers (10 EO)	<b>MARLIPAL O13/100</b>	100	74–77 <sup>10)</sup>	liquid/paste	Europe
	<b>MARLIPAL O13/109</b>	90	74–77 <sup>10)</sup>	liquid	Europe
	<b>NOVEL TDA-10</b>	100	71 <sup>2)</sup>	liquid	USA
	<b>MULTISO 13/100</b>	100	74–77 <sup>2)</sup>	liquid/paste	Asia
	<b>MULTISO 13/109</b>	90	74–77 <sup>2)</sup>	liquid	Asia
C <sub>13</sub> -alcohol polyethylene glycol ether (11 EO)	<b>MULTISO 13/110</b>	100	78–82 <sup>2)</sup>	paste	Asia
C <sub>13</sub> -alcohol polyethylene glycol ethers (12 EO)	<b>MARLIPAL O13/120</b>	100	54–57 <sup>6)</sup>	in drums: paste in bulk: liquid	Europe
	<b>MARLIPAL O13/129</b>	90	54–57 <sup>6)</sup>	liquid	Europe
	<b>MULTISO 13/120</b>	100	54–57 <sup>3)</sup>	paste	Asia
	<b>MULTISO 13/128</b>	85	54–57 <sup>3)</sup>	liquid	Asia
	<b>NOVEL TDA-12</b>	100	85 <sup>2)</sup>	liquid	USA
	<b>TRIDAC ISO-12</b>	100	54–57 <sup>3)</sup>	liquid/paste	Europe
	<b>TRIDAC ISO-12 90%</b>	90	54–57 <sup>3)</sup>	liquid	Europe
	C <sub>13</sub> -alcohol polyethylene glycol ethers (13 EO)	<b>ALFONIC TDA-13</b>	100	57 <sup>3)</sup>	solid
<b>MARLIPAL O13/130</b>		100	74–76 <sup>11)</sup>	paste	Europe
<b>MULTISO 13/130</b>		100	73–76 <sup>11)</sup>	paste	Asia

1) 10% in 25% BDG solution

2) 1% in deionized water

3) 1% in 10% NaCl solution

6) 2% in 10% NaCl solution

10) 2% in deionized water

11) 1% in 5% NaCl solution

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>13</sub> -alcohol polyethylene glycol ethers (20 EO)	<b>MARLIPAL 013/208</b>	80	72–75 <sup>6)</sup>	liquid	Europe
	<b>MULTISO 13/200</b>	100	71–74 <sup>3)</sup>	solid	Asia
	<b>MULTISO 13/208</b>	80	71–74 <sup>3)</sup>	liquid	Asia
	<b>TRIDAC ISO-20</b>	100	—	solid	Europe
C <sub>13</sub> -alcohol polyethylene glycol ethers (30 EO)	<b>MARLIPAL 013/307</b>	70	33–39 <sup>4)</sup>	liquid	Europe
	<b>MARLOSOL TA 300-70</b>	70	75–78 <sup>3)</sup>	liquid	Asia
	<b>MULTISO 13/300</b>	100	74–78 <sup>3)</sup>	solid	Asia
	<b>NOVEL TDA-30</b>	100	76 <sup>3)</sup>	solid	USA
	<b>NOVEL TDA-3070</b>	70	72 <sup>3)</sup>	liquid	
C <sub>13</sub> -alcohol polyethylene glycol ethers (40 EO)	<b>MARLOSOL TA 400</b>	100	—	flakes	Asia
	<b>NOVEL TDA-40</b>	100	—	solid	USA
	<b>NOVEL TDA-4070</b>	70	—	liquid	USA
	<b>TRIDAC ISO-40 70%</b>	70	27–31 <sup>4)</sup>	liquid	Europe
C <sub>13</sub> -alcohol polyethylene glycol ether (50 EO)	<b>NOVEL TDA-50</b>	100	—	solid	USA
C <sub>13</sub> -alcohol polyethylene glycol ether (100 EO)	<b>NOVEL TDA-100</b>	100	—	solid	USA
C <sub>13</sub> -alcohol polyethylene glycol ethers (150 EO)	<b>NOVEL TDA-150</b>	100	—	solid	USA
C <sub>13</sub> -alcohol polyethylene glycol ether compound	<b>NOVEL TDA-96CG</b>	100	28 <sup>2)</sup>	liquid	USA
C <sub>13</sub> -alcohol polyethylene glycol ether mixtures	<b>MARLIPAL 013/930</b>	100	70–72 <sup>1)</sup>	liquid	Europe
	<b>MARLIPAL 013/939</b>	90	70–72 <sup>1)</sup>	liquid	Europe
C <sub>13</sub> –C <sub>15</sub> -alcohol polyethylene glycol ethers (6 EO)	<b>SLOVASOL 356</b>	100	69–72 <sup>1)</sup>	liquid	Europe
	<b>SLOVASOL 356/9</b>	90	69–73 <sup>1)</sup>	liquid	Europe
C <sub>14</sub> –C <sub>15</sub> -alcohol polyethylene glycol ether (7 EO)	<b>SLOVASOL 457</b>	100	73–77 <sup>1)</sup>	paste	Europe
C <sub>14</sub> –C <sub>15</sub> -alcohol polyethylene glycol ethers (8 EO)	<b>LIALET 145-8</b>	100	78–80 <sup>1)</sup>	paste	Europe
	<b>SLOVASOL 458</b>	100	77–81 <sup>1)</sup>	paste	Europe
	<b>SLOVASOL 458/9</b>	90	76–80 <sup>1)</sup>	liquid	Europe
C <sub>14</sub> –C <sub>15</sub> -alcohol polyethylene glycol ether (9 EO)	<b>LIALET 145-9</b>	100	60–62 <sup>2)</sup>	paste	Europe

<sup>1)</sup> 10% in 25% BDG solution<sup>2)</sup> 1% in deionized water<sup>3)</sup> 1% in 10% NaCl solution<sup>4)</sup> hydroxyl number in mg KOH/g

## Alkylphenol ethoxylates\*

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
Di butylphenol polyethylene glycol ether (13 EO) *	<b>MARLOWET TBP 13</b>	90	81–84 <sup>2)</sup>	liquid	Europe
Nonylphenol polyethylene glycol ether (3 EO) *	<b>MARLOPHEN NP 3</b>	100	44–46 <sup>1)</sup>	liquid	Europe
Nonylphenol polyethylene glycol ethers (4 EO) *	<b>MARLOPHEN NP 4</b>	100	54–56 <sup>1)</sup>	liquid	Europe
	<b>NPE-4</b>	100	54–57 <sup>1)</sup>	liquid	Asia
Nonylphenol polyethylene glycol ether (4.5 EO) *	<b>NPE-450</b>	100	59–61 <sup>1)</sup>	liquid	Asia
Nonylphenol polyethylene glycol ether (5 EO) *	<b>MARLOPHEN NP 5</b>	100	60–62 <sup>1)</sup>	liquid	Europe
Nonylphenol polyethylene glycol ether (6 EO) *	<b>MARLOPHEN NP 6</b>	100	68–70 <sup>1)</sup>	liquid	Europe
Nonylphenol polyethylene glycol ethers (7 EO) *	<b>MARLOPHEN NP 7</b>	100	71–74 <sup>1)</sup>	liquid	Europe
	<b>NPE-7</b>	100	71–74 <sup>1)</sup>	liquid	Asia
Nonylphenol polyethylene glycol ethers (8 EO) *	<b>MARLOPHEN NP 8</b>	100	30–34 <sup>2)</sup>	liquid	Europe
	<b>NPE-8</b>	100	30–34 <sup>2)</sup>	liquid	Asia
Nonylphenol polyethylene glycol ether (8.5 EO) *	<b>MARLOPHEN NP 8.5</b>	100	41–45 <sup>2)</sup>	liquid	Europe
Nonylphenol polyethylene glycol ethers (9 EO) *	<b>MARLOPHEN NP 9</b>	100	51–56 <sup>2)</sup>	liquid	Europe
	<b>NPE-9</b>	100	52–56 <sup>2)</sup>	liquid	Asia
Nonylphenol polyethylene glycol ether (9.5 EO) *	<b>MARLOPHEN NP 9.5</b>	100	57–61 <sup>2)</sup>	liquid	Europe
Nonylphenol polyethylene glycol ethers (10 EO) *	<b>MARLOPHEN NP 10</b>	100	62–67 <sup>2)</sup>	liquid	Europe
	<b>NPE-10</b>	100	61–66 <sup>2)</sup>	liquid	Asia
Nonylphenol polyethylene glycol ether (11 EO)*	<b>MARLOPHEN NP 11</b>	100	71–73 <sup>2)</sup>	liquid	Europe
Nonylphenol polyethylene glycol ether (12 EO) *	<b>MARLOPHEN NP 12</b>	100	79–84 <sup>2)</sup>	liquid	Europe
Nonylphenol polyethylene glycol ethers (15 EO) *	<b>MARLOPHEN NP 15</b>	100	65–68 <sup>3)</sup>	liquid/paste	Europe
	<b>NPE-15</b>	100	64–68 <sup>3)</sup>	liquid/paste	Asia
Nonylphenol polyethylene glycol ether (20 EO) *	<b>MARLOPHEN NP 20</b>	100	71–75 <sup>3)</sup>	in drums: Europe solid in bulk: liquid	
Nonylphenol polyethylene glycol ethers (30 EO) *	<b>MARLOPHEN NP 30</b>	100	33–39 <sup>4)</sup>	in drums: Europe solid in bulk: liquid	
	<b>MARLOPHEN NP 307</b>	70	74–76 <sup>3)</sup>	liquid	Europe
	<b>NONFIX 30R</b>	100	33–38 <sup>4)</sup>	flakes	Europe
	<b>NPE-30</b>	100	73–75 <sup>3)</sup>	solid	Asia
	<b>NPE-3070</b>	70	73–75 <sup>3)</sup>	liquid	Asia

<sup>1)</sup> 10% in 25% BDG solution

<sup>2)</sup> 1% in deionized water

<sup>5)</sup> 17% in 25% BDG solution

<sup>7)</sup> 5% in 25% BDG solution

<sup>10)</sup> 2% in deionized water

\* Please note that according to the EU Directive 2003/53/EC of the European Parliament and Council of 18 June 2003 the marketing and use of these products is legally restricted in Europe because of the aquatic toxicity of their degradation intermediates.

For more details please contact us.



## Alkylphenol ethoxylates \*

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
Nonylphenol polyethylene glycol ethers (40 EO) *	<b>MARLOPHEN NP 40</b>	100	26-32 <sup>4)</sup>	solid	Europe
	<b>NONFIX 40</b>	100	74-76 <sup>3)</sup>	flakes	Europe
	<b>NPE-40</b>	100	74-76 <sup>3)</sup>	flakes	Asia
Nonylphenol polyethylene glycol ethers (50 EO) *	<b>MARLOPHEN NP 50</b>	100	20-26 <sup>4)</sup>	in drums: solid in bulk: liquid	Europe
	<b>NPE-50</b>	100	20-26 <sup>4)</sup>	flakes	Asia

<sup>2)</sup> 1% in deionized water

<sup>3)</sup> 1% in 10% NaCl solution

<sup>4)</sup> hydroxyl number in mg KOH/g

\* Please note that according to the EU Directive 2003/53/EC of the European Parliament and Council of 18 June 2003 the marketing and use of these products is legally restricted in Europe because of the aquatic

toxicity of their degradation intermediates. For more details please contact us.

## Alcohol-ethylene oxide-propylene oxide-addition products

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
C <sub>6</sub> -alcohol polyalkylene glycol ethers	<b>DIONIL RT 23</b>	100	61–64 <sup>1)</sup>	liquid	Europe
C <sub>10</sub> -alcohol polyalkylene glycol ether	<b>MARLOX K 158</b>	100	36–39 <sup>1)</sup>	liquid	Europe, Asia
C <sub>10</sub> –C <sub>12</sub> -alcohol polyalkylene glycol ethers	<b>MARLOX FK 57</b>	100	32–36 <sup>2)</sup>	liquid	Europe
	<b>MARLOX FK 64</b>	100	54–56 <sup>1)</sup>	liquid	Europe, Asia
	<b>MARLOX FK 69</b>	100	42–44 <sup>10)</sup>	liquid	Europe
	<b>MARLOX FK 86</b>	100	21–23 <sup>10)</sup>	liquid	Europe, Asia
C <sub>11</sub> -alcohol polyalkylene glycol ethers	<b>BIODAC 2-32</b>	100	34–36 <sup>2)</sup>	liquid	Europe
	<b>MARLOX 11009</b>	100	9–11 <sup>2)</sup>	liquid	Europe
	<b>MARLOX 11027</b>	100	26–28 <sup>2)</sup>	liquid	Europe
	<b>MARLOX OP-1</b>	100	36–38 <sup>2)</sup>	liquid	Europe
C <sub>11</sub> -alcohol polyalkylene glycol ethers	<b>MARLOX 40</b>	100	60–62 <sup>1)</sup>	liquid	Europe
	<b>MARLOX 50</b>	100	38–44 <sup>2)</sup>	liquid	Europe
	<b>MARLOX 80</b>	100	54–56 <sup>2)</sup>	liquid	Europe
C <sub>12</sub> –C <sub>13</sub> -alcohol polyalkylene glycol ethers	<b>MARLOX SF 36</b>	100	33–36 <sup>1)</sup>	liquid	Asia
	<b>MARLOX SF 56</b>	100	39–42 <sup>1)</sup>	liquid	Asia
C <sub>12</sub> –C <sub>14</sub> -alcohol polyalkylene glycol ethers	<b>MARLOX MO 124</b>	100	38–40 <sup>1)</sup>	liquid	Europe
	<b>MARLOX MO 154</b>	100	40–43 <sup>5)</sup>	liquid	Europe
C <sub>12</sub> –C <sub>14</sub> -alcohol polypropylene glycol ether	<b>MARLOWET CPO</b>	100	44–50 <sup>7)</sup>	liquid	Europe
C <sub>12</sub> –C <sub>15</sub> -alcohol polyalkylene glycol ethers	<b>BIODAC 25059</b>	100	26–32 <sup>4)</sup>	liquid	Europe
	<b>MARLOX LF 8530</b>	100	39–42 <sup>1)</sup>	liquid	Europe
	<b>MARLOX LF 9353</b>	100	34–37 <sup>1)</sup>	liquid	Europe
	<b>NOVANIK 0633 A</b>	100	45–51 <sup>1)</sup>	liquid	Europe
	<b>NOVANIK 1018 A</b>	100	34–40 <sup>1)</sup>	liquid	Europe
	<b>NOVANIK 1047 A</b>	100	46–52 <sup>1)</sup>	liquid	Europe
C <sub>13</sub> -alcohol polyalkylene glycol ethers	<b>MARLOX N 92</b>	100	42–46 <sup>10)</sup>	liquid	Europe
	<b>MARLOX TD 510</b>	100	60–64 <sup>1)</sup>	liquid	Asia
C <sub>16</sub> –C <sub>18</sub> -alcohol polyalkylene glycol ethers	<b>EMULDAC 251 PE</b>	100	21–26 <sup>1)</sup>	liquid	Europe
	<b>MARLOX RT 42</b>	100	51–53 <sup>1)</sup>	liquid	Europe, Asia
	<b>MARLOX RT 45</b>	100	67–70 <sup>1)</sup>	liquid	Europe
	<b>MARLOX RT 64</b>	100	60–62 <sup>1)</sup>	liquid	Europe, Asia
C <sub>18</sub> -alcohol polyalkylene glycol ether	<b>MARLOWET 5001</b>	100	ca. 61 <sup>1)</sup>	liquid	Europe
C <sub>18</sub> -alcohol polypropylene glycol ether	<b>MARLOSOL ST 9150 P</b>	100	—	liquid	Europe
Alcohol polyalkylene glycol ether	<b>MARLOWET 5056</b>	100	70–74 <sup>10)</sup>	liquid	Europe

<sup>1)</sup> 10% in 25% BDG solution

<sup>2)</sup> 1% in deionized water

<sup>4)</sup> hydroxyl number in mg KOH/g

<sup>5)</sup> 1.7% in 25% BDG solution

<sup>7)</sup> 5% in 25% BDG solution

<sup>10)</sup> 2% in deionized water

## Block ethylene oxide-propylene oxide-addition products

Chemical description	Product name	Active content [% by wt.]	Cloud point [°C]	Form supplied	Product made in
Block ethylene oxide-propylene oxide copolymers	<b>NOVANIK 1010</b>	100	53–59 <sup>1)</sup>	liquid	Europe
	<b>PLURODAC 44</b>	100	65 <sup>12)</sup>	liquid	Europe
	<b>PLURODAC 61</b>	100	23 <sup>2)</sup>	liquid	Europe
	<b>PLURODAC 62</b>	100	25–28 <sup>2)</sup>	liquid	Europe
	<b>PLURODAC 64</b>	100	59–60 <sup>12)</sup>	liquid	Europe
	<b>PLURODAC 81</b>	100	17 <sup>1)</sup>	liquid	Europe
	<b>PLURODAC F68</b>	100	—	solid	Europe

<sup>1)</sup> 10% in 25% BDG solution

<sup>2)</sup> 1% in deionized water

<sup>12)</sup> 10% in deionized water

## Glycerol derivatives

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
Glycerol ethoxylates	<b>GLICERODAC/2</b>	100	liquid	Europe
	<b>GLICERODAC/7.5</b>	100	liquid	Europe
	<b>GLICERODAC</b>	100	liquid	Europe
	<b>GLICERODAC/15</b>	100	liquid	Europe
	<b>GLICERODAC/20</b>	100	liquid	Europe
	<b>GLICERODAC/40</b>	100	solid	Europe
Glycerol polyalkylene glycol ether	<b>GLICERODAC PO-70</b>	100	liquid	Europe

## Soil release polymers

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
Polyether-polyester copolymers	<b>MARLOQUEST B</b>	100	granules	Europe
	<b>MARLOQUEST G82</b>	100	granules	Europe
	<b>MARLOQUEST HSCB</b>	70	liquid	Europe
	<b>MARLOQUEST L235 M</b>	70	liquid	Europe
	<b>MARLOQUEST SL</b>	100	granules	Europe

## 2. Surfactants, anionic

### Alkylbenzene sulphonic acids

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
n-C <sub>10</sub> -C <sub>13</sub> -alkylbenzene sulphonic acids	<b>MARLON AS 3</b>	97	liquid	Europe
	<b>MARLON AS 3H</b>	96	liquid	Europe
	<b>SOLFODAC AC-3-I</b>	97	liquid	Europe
	<b>SOLFODAC AC-3-H</b>	97	liquid	Europe

### Alkylbenzene sulphonates

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
n-C <sub>10</sub> -C <sub>13</sub> -alkylbenzene sulphonate, Na salts	<b>MARLON A 315</b>	15	liquid	Europe
	<b>ANIODAC DSN25</b>	25	liquid	Europe
	<b>MARLON A 330</b>	30	liquid/paste	Europe
	<b>MARLON A 350</b>	50	liquid/paste	Europe
	<b>SOLFODAC DBL-60</b>	56	liquid/paste	Europe
	<b>MARLON A 360</b>	60	liquid/paste	Europe
	<b>MARLON A 365</b>	65	liquid/paste	Europe
	<b>MARLON A 375</b>	75	paste	Europe
	<b>MARLON ARL</b>	80	powder	Europe
n-C <sub>10</sub> -C <sub>13</sub> -alkylbenzene sulphonate, MIPA salt	<b>MARLON AMI 80</b>	77	liquid	Europe
n-C <sub>10</sub> -C <sub>13</sub> -alkylbenzene sulphonate, TEA salt	<b>MARLOPON AT 50</b>	50	liquid	Europe

## Alcohol ether sulphates

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
Linear/branched C <sub>11</sub> -alcohol ether sulphate, Na-salt	<b>ANIODAC 11P7-27</b>	27	liquid	Europe
C <sub>12</sub> -C <sub>13</sub> -alcohol ethylene glycol ether sulphate, Na salts	<b>DACLOR 27-1-23</b>	27	liquid	Europe
	<b>DACLOR 70-1-23</b>	70	paste	Europe
Linear/branched C <sub>12</sub> -C <sub>13</sub> -alcohol ether (2 EO) sulphate, Na-salt	<b>SAFOL 23 E25</b>	70	paste	Asia
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (3 EO) sulphate, Na salts	<b>DACLOR 27-3-23</b>	27	liquid	Europe
	<b>DACLOR 70-3-23</b>	70	paste	Europe
C <sub>12</sub> -C <sub>13</sub> -alcohol polyethylene glycol ether (20 EO) sulphate, Na salt	<b>DACLOR 27-20-23</b>	27	liquid	Europe
Linear C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether sulphate, ammonium salt	<b>AELS-70</b>	70	paste	Asia
Linear C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether (2 EO) sulphate, Na salts	<b>COSMACOL AES 27-2-24</b>	27	liquid	Europe
	<b>COSMACOL AES 70-2-24</b>	70	paste	Europe
	<b>MARLINAT 242/28</b>	28	liquid	Europe
	<b>MARLINAT 242/28 UK</b>	28	liquid	Europe
	<b>MARLINAT 242/70</b>	70	paste	Europe
	<b>MARLINAT 242/70 B</b>	70	paste	Europe
	<b>MARLINAT 242/70 C</b>	70	paste	Europe
	<b>MARLINAT 242/70 C5</b>	70	paste	Europe
	<b>AES 2-27 ZN</b>	27	liquid	Asia
	<b>AES 270N-II</b>	70	paste	Asia
<b>AES 270ZN</b>	70	paste	Asia	
Linear C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether (2 EO) sulphate, monoisopropanolammonium salts	<b>MARLINAT 242/90 M</b>	90	liquid	Europe
	<b>MARLINAT 242/90 MC</b>	90	liquid	Europe
Linear C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether (3 EO) sulphate, ammonium salts	<b>AAES 370ZN</b>	70	paste	Asia
	<b>AAES 370N-II</b>	70	paste	Asia
Linear C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether (3 EO) sulphate, Na salts	<b>COSMACOL AES 27-3-24</b>	27	liquid	Europe
	<b>COSMACOL AES 70-3-24</b>	70	paste	Europe
	<b>MARLINAT 243/70</b>	70	paste	Europe
C <sub>12</sub> -C <sub>15</sub> -alcohol polyethylene glycol ether (2 EO) sulphate, ammonium salt	<b>AES 270N-II</b>	70	paste	Asia
Branched C <sub>13</sub> -alcohol ether sulphate, Na-salt	<b>ANIODAC 13P20-27</b>	27	liquid	Europe

## Alcohol sulphates

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
C <sub>12</sub> -C <sub>13</sub> -alcohol sulphate, Na salts	DACPON 27-23	27	liquid	Europe
	SAFOL 23 S 70	70	paste	Asia
C <sub>12</sub> -C <sub>13</sub> -alcohol sulphate, ammonium salt	SAFOL 23 A 70	70	paste	Asia
C <sub>12</sub> -C <sub>14</sub> -alcohol sulphate, ammonium salt	ALS-70	70	paste	Asia

## Alcohol ether carboxylic acids

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
C <sub>8</sub> -alcohol polyethylene glycol ether carboxylic acid	MARLOWET 4564	90	liquid	Europe
C <sub>9</sub> -alcohol polyethylene glycol ether carboxylic acids (LF = low foaming grade)	MARLOWET 4539	90	liquid	Europe
	MARLOWET 4539 LF	90	liquid	Europe
C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether carboxylic acids	MARLOWET 1072	90	liquid	Europe
	MARLOWET 4541	90	liquid	Europe
C <sub>13</sub> -alcohol polyethylene glycol ether carboxylic acid	MARLOWET 4538	90	liquid	Europe
	MARLOWET 4570LF	90	liquid	Europe
C <sub>16</sub> -C <sub>17</sub> -alcohol polyethylene glycol ether carboxylic acids	MARLOWET 4562	90	liquid	Europe
	MARLOWET 4563	90	liquid	Europe
C <sub>16</sub> -C <sub>18</sub> -alcohol polyalkylene glycol ether carboxylic acids	MARLOWET 4560	90	paste	Europe
	MARLOWET 4561	90	paste	Europe

## Carboxylic acid, salt

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
Carboxylic acid, amine salt	MARLOWET 5609	100	liquid	Europe

## 3. Fatty acid esters and -amides

### Fatty acid esters, ethoxylated

Chemical description	Product name	Form supplied	Product made in
C <sub>12</sub> -fatty acid polyethylene glycol ester (7 EO)	<b>LAURILDAC 7</b>	liquid	Europe
C <sub>12</sub> -fatty acid polyethylene glycol ester (9 EO)	<b>FCE 9-L98</b>	liquid	Asia
Coco fatty acid polyethylene glycol ester (10 EO)	<b>LAURILDAC AGC-10</b>	liquid	Europe
Oleic acid polyethylene glycol ester (3 EO)	<b>SLOVACID O 3</b>	liquid	Europe
Oleic acid polyethylene glycol ester (6 EO)	<b>SLOVACID O 6</b>	liquid	Europe
Oleic acid polyethylene glycol esters (7 EO)	<b>MARLOSOL OL 7</b>	liquid	Europe
	<b>MARLOWET OTS</b>	liquid	Europe
Oleic acid polyethylene glycol ester (9 EO)	<b>SLOVACID O 9</b>	liquid	Europe
Oleic acid polyethylene glycol esters (20 EO)	<b>SLOVACID O 20</b>	liquid/paste	Europe
	<b>SLOVACID O 20/70</b>	liquid	Europe
PEG 400 dioleate	<b>MARLOWET 4702</b>	liquid	Europe
PEG 600 dioleate	<b>MARLOSOL FS</b>	liquid	Europe
Mixture of fatty acid and PEG-ester	<b>MARLOWET 4750 M</b>	liquid	Europe
Sorbitol mono-oleate polyethylene glycol ether (20 EO)	<b>DACOL MOS-20</b>	liquid	Europe



## Castor oil ethoxylates

Chemical description	Product name	Form supplied	Product made in
Castor oil, ethoxylated (5 EO)	<b>EMULGANTE EL-5G</b>	liquid	Europe
Castor oil, ethoxylated (10 EO)	<b>SLOVACID R 10</b>	liquid	Europe
Castor oil, ethoxylated (11 EO)	<b>MARLOWET R 11</b>	liquid	Europe
Castor oil, ethoxylated (20 EO)	<b>SLOVACID R 20</b>	liquid/paste	Europe
	<b>SLOVACID R 20/8</b>	liquid	Europe
Castor oil, ethoxylated (23 EO)	<b>EMULGANTE EL-18</b>	liquid	Europe
Castor oil, ethoxylated (30 EO)	<b>EMULGANTE EL-30</b>	liquid	Europe
Castor oil, ethoxylated (38 EO)	<b>EMULGANTE EL-65</b>	liquid/paste	Europe
Castor oil, ethoxylated (40 EO)	<b>MARLOWET R 40</b>	liquid	Europe
	<b>NOVEL EL 40</b>	solid	USA
Castor oil, ethoxylated (50 EO)	<b>EMULGANTE EL</b>	liquid/paste	Europe
Castor oil, ethoxylated (200 EO)	<b>EMULGANTE ELC-200</b>	solid	Europe
Esters of ethoxylated castor oil	<b>MARLOWET LVS</b>	liquid	Europe
	<b>MARLOWET CG</b>	liquid	Europe

## Fatty acid alkanolamides

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
Coconut oil diethanolamide	<b>DACAMID DC</b>	100	liquid	Europe

## 4. Alkylamine alkoxyates

### Alkylamine ethoxyates

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
Lauryl amine polyethylene glycol ether (10 EO)	<b>MARLAZIN L 10</b>	100	liquid	Europe
Tallow amine polyethylene glycol ether (7 EO)	<b>MARLAZIN T 7/2</b>	100	liquid	Europe
Tallow amine polyethylene glycol ether (50 EO)	<b>MARLAZIN T 50/45</b>	45	liquid	Europe
Tallow amine polyethylene glycol ether (15 EO)	<b>DIAMMIN S-15</b>	100	liquid	Europe
Tallow amine polyethylene glycol ether (25 EO)	<b>DIAMMIN S-25</b>	100	solid	Europe
Oleyl amine polyethylene glycol ether (20 EO)	<b>MARLAZIN OL 20</b>	100	liquid	Europe

### Alkylamine ethoxylate propoxylates

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
Oleyl fatty amine ethoxylate and propoxylates	<b>DIAMMIN KLG-11154</b>	100	liquid	Europe
	<b>DIAMMIN KLG-11154 70%</b>	70	liquid	Europe
Ethylenediamine propoxylate and ethoxylate	<b>DIAMMIN EDA-72</b>	100	flakes	Europe

## 5. Hydrotropics

### Cumene sulphonates

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
Potassium sodium cumene sulphonate	<b>KNa cumene sulphonate 40</b>	40	liquid	Europe
Sodium cumene sulphonate	<b>Sodium cumene sulphonate 40</b>	40	liquid	Europe

## 6. Polyethylene glycols

### PEG grades

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
PEG-4	<b>LIPOXOL 200</b>	100	liquid	Europe
PEG-6	<b>LIPOXOL 300</b>	100	liquid	Europe
	<b>LIPOXOL 300 MED</b>	100	liquid	Europe
PEG-8	<b>LIPOXOL 400</b>	100	liquid	Europe
	<b>LIPOXOL 400 MED</b>	100	liquid	Europe
PEG-12	<b>LIPOXOL 600</b>	100	liquid/solid	Europe
	<b>LIPOXOL 600 MED</b>	100	liquid/solid	Europe
PEG-20	<b>LIPOXOL 1000</b>	100	solid	Europe
	<b>LIPOXOL 1000 MED</b>	100	solid	Europe
PEG-32	<b>LIPOXOL 1500</b>	100	flakes	Europe
	<b>LIPOXOL 1500 MED</b>	100	flakes	Europe
PEG-60	<b>LIPOXOL 3000</b>	100	flakes	Europe
	<b>LIPOXOL 3000 MED</b>	100	flakes or powder	Europe
PEG-75	<b>LIPOXOL 3350</b>	100	flakes	Europe
	<b>LIPOXOL 3350 MED</b>	100	flakes or powder	Europe
PEG-90	<b>LIPOXOL 4000</b>	100	flakes or powder	Europe
	<b>LIPOXOL 4000 MED</b>	100	flakes or powder	Europe
PEG-135	<b>LIPOXOL 6000</b>	100	flakes or powder	Europe
	<b>LIPOXOL 6000 MED</b>	100	flakes or powder	Europe
PEG-180	<b>LIPOXOL 8000</b>	100	flakes	Europe
	<b>LIPOXOL 8000 MED</b>	100	flakes	Europe

The LIPOXOL MED-grades comply with the demands of the pharmacopoeia Ph. Eur. and USP/NF

## Methoxy PEG grades

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
PEG-6 methylether	<b>NONIDAC M-350</b>	100	liquid	Europe
PEG-10 methylether	<b>NONIDAC M-550</b>	100	liquid/paste	Europe
PEG-16 methylether	<b>NONIDAC M-750</b>	100	paste	Europe
PEG-20 methylether	<b>NONIDAC M-1000</b>	100	solid	Europe
PEG-40 methylether	<b>NONIDAC M-2000</b>	100	solid	Europe
PEG-68 methylether	<b>NONIDAC M-3000</b>	100	solid	Europe
PEG-112 methylether	<b>NONIDAC M-5000</b>	100	solid	Europe

## 7. Special compounds

Chemical description	Product name	Active content [% by wt.]	Form supplied	Product made in
Blend based on n-C <sub>10</sub> -C <sub>13</sub> -alkylbenzene sulphonate, Na salt, C <sub>12</sub> -C <sub>14</sub> -alcohol ether sulphate, Na salt, C <sub>12</sub> -C <sub>14</sub> -alcohol polyethylene glycol ether and fatty acid alkanolamide	<b>MARLON AFO 50</b>	50	liquid/paste	Europe
Blend based on alcohol C <sub>10</sub> -C <sub>15</sub> polyalkylene glycol ether, fatty amine polyalkylene glycol ether and coco fatty acid	<b>NONIDAC AC 2</b>	100	liquid	Europe
Blend of n-C <sub>10</sub> -C <sub>13</sub> -alkylbenzene sulphonate, alkyl polyethylene glycol ether and fatty acid polyethylene glycol ether	<b>MARLOWET OFA</b>	100	liquid	Europe
Blend based on a nonionic surfactant and TEA soap	<b>MARLOX M 606</b>	95	liquid	Europe
Blend based on anionic surfactants	<b>SOLFODAC 1545</b>	60	paste	Europe
Blend based on anionic surfactants	<b>SOLFODAC 1834</b>	60	paste	Europe
Blend based on anionic and nonionic surfactants	<b>TENSIODAC HDL-60 C</b>	60	paste	Europe



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# At your service



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