

# NONIONIC SURFACTANTS

## Group Listing

1.	Polyethylene glycols – PEG .....	2
2.	Non-ionic surfactants on the basis of fatty acids.....	3
3.	Non-ionic surfactants on the basis of phenol and alkylphenol.....	4
4.	Non-ionic surfactants on the basis of fatty acid amides.....	5
5.	Non-ionic surfactants on the basis of fatty alcohols.....	5
6.	Block copolymers of ethylene- and propylene- oxide .....	8
7.	Products on basis of fatty amines .....	8

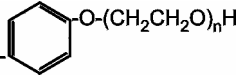
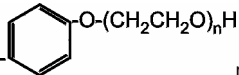
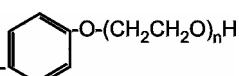
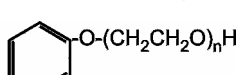
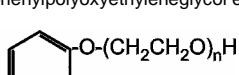
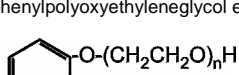
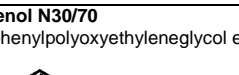
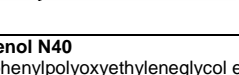
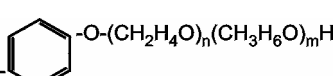
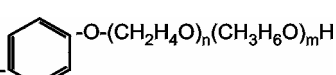
## 1. Polyethylene glycols – PEG

Product	Chemical formula Composition	Appearance Active substance content	Packing	Application
<b>Polikol 300</b>	Polyoxyethyleneglycol $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ $n_{\text{av.}} = \text{ab. } 6$	Colourless to light yellow liquid. Water content: max. 1.5%.	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	In textile industry as softener and anti static.
<b>Polikol 400</b>	Polyoxyethyleneglycol $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ $n_{\text{av.}} = \text{ab. } 7.5$	Colourless to light yellow liquid. Water content: max. 1.5%.	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	In textile, paper industry as softener, used in cosmetic and pharmaceutical industry, in chemical industry used as softener, plasticizer, paint solvent.
<b>Polikol 600</b>	Polyoxyethyleneglycol $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ $n_{\text{av.}} = \text{ab. } 12$	Colourless or light yellow liquid. Water content: max. 1.5%.	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Softening and antistatic agent in textile industry.
<b>Polikol 1500</b>	Polyoxyethyleneglycol $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ $n_{\text{av.}} = \text{ab. } 32$	White to light yellow solid wax. Water content: max. 1.5%.	Galvanized metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	Anti-static agent, lubricant applied in textile, leather industry.
<b>Polikol 1500 flakes</b>	Polyoxyethyleneglycol $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ $n_{\text{av.}} = \text{ab. } 32$	White to yellow coloured flakes Water content: max. 1.5%.	Galvanized metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	Anti-static agent, lubricant applied in textile, leather industry.
<b>Polikol 1500/60</b>	Water solution of polyoxyethyleneglycol $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ $n_{\text{av.}} = \text{ab. } 35$	At 25°C clear liquid, colourless to yellow. Water content: 38 ÷ 42%	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Agent used for avivaging and antistatic preparation in water baths for artificial and synthetic fibres.
<b>Polikol 4500</b>	Polyoxyethyleneglycol $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ $n_{\text{av.}} = \text{ab. } 100$	White to light yellow wax. Water content: max. 1%.	Galvanized metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	Used for protection of antique wooden objects and cosmetic, ceramic, paper industries.
<b>Polikol 4500 flakes</b>	Polyoxyethyleneglycol $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ $n_{\text{av.}} = \text{ab. } 100$	White to yellow coloured flakes. Water content: max. 1%.	Galvanized metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	Used for protection of antique wooden objects and cosmetic, ceramic, paper industries.
<b>Polikol 6000</b>	Polyoxyethyleneglycol $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ $n_{\text{av.}} = \text{ab. } 136$	White to light yellow wax. Water content: max. 1%.	Galvanized metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	Softening and antistatic agent used in textile industry and as fat-free grease in metal industry.
<b>Polikol 6000 flakes</b>	Polyoxyethyleneglycol $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ $n_{\text{av.}} = \text{ab. } 136$	White to yellow coloured flakes. Water content: max. 1%.	Galvanized metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	Softening and antistatic agent used in textile industry and as fat-free grease in metal industry.
<b>Polikol 8000</b>	Polyoxyethyleneglycol $\text{HO}-(\text{CH}_2-\text{CH}_2\text{O})_n-\text{H}$ $n_{\text{av.}} = \text{ab. } 180$	White to light yellow wax. Water content: max. 1%.	Galvanized metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	Softening and antistatic agent used in textile industry and as fat-free grease in metal industry.

## 2. Non-ionic surfactants on the basis of fatty acids

Product	Chemical formula Composition	Appearance Active substance content	Packing	Application
<b>Rokacet O7</b> Polyoxyethylene ester of oleic acid $\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COO}(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$ $n_{\text{av.}} = \text{ab. } 7$		Homogeneous oily brown liquid. Water content: max. 1 %.	Acid-proof steel tankers. Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Emulsifier of mineral oils for manufacture of oiling agents, component of lubricating oils for textile machinery and emulsifying oils for machining.
<b>Rokacet R26</b>	Oxyethylenated castor oil.	Light yellow liquid. Water content: max. 0.5 %.	Acid-proof steel tankers. Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Softening agent for natural, synthetic fibres, emulsifier for cord preparation.
<b>Rokacet R40</b>	Oxyethylenated castor oil.	Yellow paste. Water content: max. 1 %.	Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Emulsifier for oils, fats and waxes, antistatic for textile preparations.
<b>Rokacet RZ17</b>	Mixture of oxyethylenated partial glycerides of fatty acids.	Yellow to brown oily liquid.	Acid-proof steel tankers. Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Component of emulsifiers and oiling agents, binding agent for manufacture of casting moulds.
<b>Rokacet RZG2</b>	Mixture of oxyalkylenated partial glycerides of fatty acids and glycerine.	Yellow clear liquid. Water content: max. 0.5 %.	Acid-proof steel tankers. Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Component of emulsifiers and oiling agents.
<b>Rokacet RZG2P2</b>	Mixture of oxyalkylenated partial glycerides of fatty acids and oxyalkylenated glycerine.	Light yellow heterogeneous semi-liquid paste. Water content: max. 1 %.	Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Component of anti-oligomeric compound.
<b>Rokacet RO6</b>	Polyoxyetylanated ester of oleic acid.	Brown to dark brown coloured liquid; water content: max. 0.5%	Acid-proof steel tankers. Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Emulsifier of mineral oils for preparing of emulsifying oils used for machinery.
<b>Rokacet RZG7P2</b>	Mixture of oxyalkylenated partial glycerides of fatty acids and oxyalkylenated glycerine.	Yellow to brown heterogeneous semiliquid paste.	Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Component of anti-oligomeric compound, emulsifiers and oiling agents.
<b>Rokacet S2</b> Oxyethylenation product of commercial stearin $\text{CH}_3(\text{CH}_2)_{16}\text{COO}(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$ $n_{\text{av.}} = \text{ab. } 2$		White to light grey solid. Water content: max. 1 %.	Metal drums $V = 200 \text{ dm}^3$ .	Auxiliary in cosmetic industry and in household chemistry.
<b>Rokacet S7</b> Oxyethylenation product of commercial stearin $\text{CH}_3(\text{CH}_2)_{16}\text{COO}(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$ $n_{\text{av.}} = \text{ab. } 7$		Yellow to beige paste.	Metal drums $V = 200 \text{ dm}^3$ .	Preparing, softening, antistatic agent for textile, chemical and natural products.
<b>Rokacet S8</b> Oxyethylenation product of commercial stearin $\text{CH}_3(\text{CH}_2)_{16}\text{COO}(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$ $n_{\text{av.}} = \text{ab. } 8$		White to light brown paste.	Metal drums $V = 200 \text{ dm}^3$ .	Non-ionic antistatic avivaging and equalizing agent for textile industry.
<b>Rokacet S24</b> Oxyethylenation product of commercial stearin $\text{CH}_3(\text{CH}_2)_{16}\text{COO}(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$ $n_{\text{av.}} = \text{ab. } 24$		White to light brown wax.	Metal drums $V = 200 \text{ dm}^3$ .	Equalizer of dyes, softening agent and demineralizing and dewatering agent for crude oil.

### 3. Non-ionic surfactants on the basis of phenol and alkylphenol

Product	Chemical formula Composition	Appearance Active substance content	Packing	Application
<b>Rokafenol N3</b> Nonylphenylpolyoxyethylene glycol ether	 $C_9H_{19}$ $n_{av.} = ab. 3$	Colourless to straw-coloured, oily liquid. Water content: max. 1 %.	Polyethylene drums $V = 120, 220 \text{ dm}^3$	Emulsifying agent for detergents, emulsifier for water in oil emulsions
<b>Rokafenol N4</b> Nonylphenylpolyoxyethylene glycol ether	 $C_9H_{19}$ $n_{av.} = ab. 4$	Colourless to straw-coloured, oily liquid. Water content: max. 1 %.	Acid-proof metal containers. Polyethylene drums $V = 120, 220 \text{ dm}^3$	Emulsifying component of washing agents; emulsifier for solvents and mineral oils.
<b>Rokafenol N5</b> Nonylphenylpolyoxyethylene glycol ether	 $C_9H_{19}$ $n_{av.} = ab. 5$	Colourless to straw-coloured, oily liquid. Water content: max. 1 %.	Acid-proof metal containers. Polyethylene drums $V = 120, 220 \text{ dm}^3$	Emulsifying component of washing agents; emulsifier for solvents and mineral oils.
<b>Rokafenol N6</b> Nonylphenylpolyoxyethyleneglycol ether	 $C_9H_{19}$ $n_{av.} = ab. 6$	Colourless to straw-coloured, oily liquid. Water content: max. 1 %.	Acid-proof steel tankers. Polyethylene drums $V = 120, 220 \text{ dm}^3$	Component of washing and cleaning agents, emulsifier for solvents and oils in water and non-water disperse systems.
<b>Rokafenol N7</b> Nonylphenylpolyoxyethyleneglycol ether	 $C_9H_{19}$ $n_{av.} = ab. 7$	Colourless to straw-coloured, oily liquid. Water content: max. 1 %.	Acid-proof steel tankers. Polyethylene drums $V = 120, 220 \text{ dm}^3$	Component of washing and cleaning agents, emulsifier for solvents and oils. Dispersing agent for pigments, printing ink and others.
<b>Rokafenol N22</b> Nonylphenylpolyoxyethyleneglycol ether	 $C_9H_{19}$ $n_{av.} = ab. 22$	White to yellow coloured solid. Water content: max. 1 %.	Galvanized metal drums with movable bottom $V = 200 \text{ dm}^3$ .	Component of cleaning, washing agents and as emulsifier.
<b>Rokafenol N30/70</b> Nonylphenylpolyoxyethyleneglycol ether	 $C_9H_{19}$ $n_{sr.} = ok. 30.$	Colourless to light yellow coloured liquid. Water content: approx. 30 %.	Polyethylene drums $V = 120, 220 \text{ dm}^3$ Galvanized metal drums with movable bottom $V = 200 \text{ dm}^3$	Component of washing, cleaning, wetting agents, emulsifier.
<b>Rokafenol N40</b> Nonylphenylpolyoxyethyleneglycol ether	 $C_9H_{19}$ $n_{av.} = ab. 40.$	White to yellow coloured wax. Water content: max. 1 %.	Galvanized metal drums with movable bottom $V = 200 \text{ dm}^3$ .	Component of washing, cleaning, wetting agents, emulsifier.
<b>Rokafenol N8P7</b> Nonylphenylpolyoxyethylenepolyoxypropyleneglycol ether	 $C_9H_{19}$ $n_{av.} = ab. 8$ $m_{av.} = ab. 7$	Colourless to straw-coloured, oily liquid.	Polyethylene drums $V = 120, 220 \text{ dm}^3$	Component of washing, cleaning agents and textile preparations with low foaming properties.
<b>Rokafenol N8P14</b> Nonylphenylpolyoxyethylenepolyoxypropyleneglycol ether	 $C_9H_{19}$ $n_{av.} = ab. 9$ $m_{av.} = ab. 14$	Colourless to straw-coloured oily liquid.	Polyethylene drums $V = 120, 220 \text{ dm}^3$	Component of washing, cleaning agents and textile preparations with low foaming properties.

#### 4. Non-ionic surfactants on the basis of fatty acid amides

Product	Chemical formula Composition	Appearance Active substance content	Packing	Application
<b>Rokamid K35</b> Water solution of oxyethylenated lactam with addition of stabilizer $\text{CH}_2(\text{CH}_2)_4\text{CON} - (\text{C}_2\text{H}_4\text{O})_n - \text{H}$ $n_{\text{av.}} = \text{ab. } 35$		Straw to light yellow liquid. Water content: $38 \div 42\%$	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Crease preventing agent in textiles with softening, hydrophilic and antistatic properties.
<b>Rokamid MRZ17</b>	Mixture of oxyethylenated acid amides and oxyethylenated glycerine.	Light brown to brown liquid or deliquescent paste.	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Additive to washing agents, emulsifier in oiling compounds, auxiliary for household chemistry products.

#### 5. Non-ionic surfactants on the basis of fatty alcohols

Product	Chemical formula Composition	Appearance Active substance content	Packing	Application
<b>Rokanol B2</b>	Oxyalkylenated saturated tallow alcohol.	Turbid, yellow to beige coloured liquid. Water content: max. 0.5 %.	Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Low-foaming agent, component of washing cleaning and auxiliary agents for household chemistry industry.
<b>Rokanol B3</b>	Oxyalkylenated saturated tallow alcohol.	Turbid, yellow to beige coloured liquid. Water content: max. 0.5 %.	Acid-proof steel tankers. Galvanized metal drums: $V = 200 \text{ dm}^3$ .	Low-foaming agent, component of washing cleaning and auxiliary agents for household chemistry industry.
<b>Rokanol DB3</b>	Adduct of ethylene oxide to synthetic fatty alcohol $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$ $R = \text{C}_{12} \div 15$ $n_{\text{av.}} = \text{ab. } 3$	White to straw coloured liquid or paste. Water content: max. 0.4 %.	Acid-proof steel tankers. Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Intermediate for manufacture of ethersulphates.
<b>Rokanol DB5</b>	Polyoxyethylene ether of synthetic fatty alcohols. $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$ $R = \text{C}_{12} \div 15$ $n_{\text{av.}} = \text{ab. } 5$	Colourless or light yellow coloured liquid. Water content: max. 0.5 %	Acid-proof steel tankers. Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Component of washing powders.
<b>Rokanol DB7</b>	Polyoxyethylene ether of synthetic fatty alcohol. $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_7\text{H}$ $R = \text{C}_{12} \div 15$	Colourless or light yellow coloured liquid. Water content: max. 1 %.	Acid-proof steel tankers. Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Mainly for manufacture of washing and cleaning liquids.
<b>Rokanol DB7W</b>	Oxyethylenated synthetic fatty alcohol. $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_7\text{H}$ $R = \text{C}_{12} \div 15$	Colourless or light yellow liquid. Water content: $7 \div 10 \%$ .	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Mainly for manufacture of washing and cleaning liquids.
<b>Rokanol DB12</b>	Oxyethylenated synthetic fatty alcohol. $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_{12}\text{H}$ $R = \text{C}_{12} \div 15$	Turbid liquid or paste	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Mainly for manufacture of washing and cleaning liquids.
<b>Rokanol IB2</b>	Adduct of ethylene oxide to isobutyl alcohol $\text{C}_4\text{H}_9\text{O}(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$ $n_{\text{av.}} = \text{ab. } 2$	Light yellow to yellow colour liquid. Water content: max. 1 %.	Acid-proof steel tankers. Galvanized metal drums: $V = 200 \text{ dm}^3$ .	Component of cleaning and washing agents.
<b>Rokanol IT7</b>	Oxyethylenated synthetic fatty alcohol. $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_7\text{H}$ $R = \text{C}_{13}$	Clear or slightly turbid liquid	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Component of washing and cleaning agents and component of textile preparations.
<b>Rokanol IT9</b>	Oxyethylenated synthetic fatty alcohol. $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_9\text{H}$ $R = \text{C}_{13}$	Liquid of oily consistence or paste	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Component of washing and cleaning agents and component of textile preparations.
<b>Rokanol K3</b>	Oxyethylenated unsaturated fatty alcohol $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_n\text{H}$ $R = \text{C}_{16} \div 22$ $n_{\text{av.}} = \text{ab. } 3$	White to light brown coloured paste.	Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Emulsifier of mineral oils for making readily washable preparations used in manufacture of synthetic fibres.

Product	Chemical formula Composition	Appearance Active substance content	Packing	Application
<b>Rokanol K7</b>	Oxyethylenated unsaturated fatty alcohol $RO(CH_2CH_2O)_nH$ $R = C_{16} \div 22$ $n_{av.} =$ ab. 7	Paste-like wax of white to cream colour.	Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Component of preparations for textile industry, component of emulsifying blocks for mineral oils, raw material for manufacture of washing agents.
<b>Rokanol LK2</b>	Polyoxyethylene ether of lauryl alcohol $C_{12}H_{25}O(CH_2CH_2O)_nH$ $n_{av.} =$ ab. 2	Colourless or yellow coloured jelly- like liquid with acceptable suspension. Water content: max. 0.5 %.	Acid-proof steel tankers. Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Emulsifier, intermediate for making ethersulphates used in cosmetic industry and household chemistry.
<b>Rokanol LK3</b>	Polyoxyethylene ether of lauryl alcohol $C_{12}H_{25}O(CH_2CH_2O)_nH$ $n_{av.} =$ ab. 3	Colourless or yellow coloured, viscous jelly-like liquid with acceptable suspension. Water content max. 0.5 %.	Acid-proof steel tankers. Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Component of washing and emulsifying agents as ethersulphate is basic component of shampoos and cosmetics removers.
<b>Rokanol L3S</b>	Polyoxyethylene ether of lauryl alcohol $C_{12}H_{25}O(CH_2CH_2O)_nH$ $n_{av.} =$ ab. 3	Colourless or yellow coloured, viscous jelly-like liquid with acceptable suspension. Water content: max. 0.5 %.	Acid-proof steel tankers. Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Used mainly for manufacture of sulphuric acid esters for cosmetics industry.
<b>Rokanol L4</b>	Polyoxyethylene ether of lauryl alcohol $C_{12}H_{25}O(C_2H_4O)_nH$ $n_{av.} =$ ab. 4	Colourless or yellow coloured, viscous jelly-like liquid with acceptable suspension. Water content max. 0.5 %.	Acid-proof steel tankers. Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Component of emulsifiers and cleaning, washing powders and pastes, intermediate for making sulphuric acid esters used in cosmetic industry.
<b>Rokanol L4P5</b>	Mixture of oxyalkylenated fatty alcohols like lauryl.	Yellow liquid. Water content: max. 0.5 %.	Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Low-foaming agent for washing & cleaning compounds used in textile industry.
<b>Rokanol L7</b>	Polyoxyethylene ether of lauryl alcohol $RO(CH_2CH_2O)_nH$ $R = C_{12} \div 14$ $n_{av.} =$ ab. 7	Colourless to light yellow colour liquid or liquid paste. Water content: max. 1 %.	Acid-proof steel tankers. Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	Component of washing- cleaning agents and auxiliaries for household chemistry.
<b>Rokanol L10</b>	Polyoxyethylene ether of lauryl alcohol $C_{12}H_{25}O(C_2H_4O)_nH$ $n_{av.} =$ ab. 10	White to light beige paste. Water content: max. 0.5 %.	Galvanised metal drums with movable bottom $V = 200 \text{ dm}^3$ . Polyethylene drums $V = 60, 120, 220 \text{ dm}^3$ .	In textile industry as washing, wetting, avivaging agent.
<b>Rokanol L80/50W</b>	Water solution of ethylene oxide and propylene oxide adduct to lauryl alcohol.	Viscous yellow liquid. Water content: 49 ÷ 53 %.	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Wax for warps.
<b>Rokanol Ł10</b>	Adduct of ethylene oxide to saturated fatty alcohol $RO(CH_2CH_2O)_nH$ $R = C_{16} \div 18$ $n_{av.} =$ ab. 10	White to light yellow wax. Water content: max. 0.5 %.	Metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	Component of washing, cleaning agents and auxiliaries for household chemistry industry.
<b>Rokanol Ł18</b>	Adduct of ethylene oxide to saturated fatty alcohol $RO(CH_2CH_2O)_nH$ $R = C_{16} \div 18$ $n_{av.} =$ ab. 18	White to light yellow wax. Water content: max. 1 %.	Metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	Intermediate for manufacture of washing agents, can disperse dyes, emulsify kerosene and has equalizing properties.
<b>Rokanol ŁO18</b>	Adduct of ethylene oxide to unsaturated fatty alcohol.	Cream to light yellow paste.	Metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	Auxiliary used in textile, leather and washing agents industry.
<b>Rokanol O3</b>	Adduct of ethylene oxide to oleyl alcohol. $C_{18}H_{35}O(CH_2CH_2O)_nH$ $n_{av.} =$ ab. 3	Opalescent colourless liquid.	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Emulsifier of mineral oils and softening agent in textil and dye industry

Product	Chemical formula Composition	Appearance Active substance content	Packing	Application
<b>Rokanol O18</b>	Adduct of ethylene oxide to oleyl alcohol. $C_{18}H_{35}O(CH_2CH_2O)_nH$ $n_{av.} = aw. 18$	Colourless paste-like solid.	Metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	Washing and softening agent in textile and dye industry.
<b>Rokanol O100</b>	Adduct of ethylene oxide to oleyl alcohol. $C_{18}H_{35}O(CH_2CH_2O)_nH$ $n_{av.} = ab. 100$	White to creamy wax.	Metal drums with removable bottoms $V = 200 \text{ dm}^3$ .	As thickener, intermediate for manufacture of oiling agent.
<b>Rokanol RZ4P11</b>	Polyoxyalkilenglycols ether of saturated fatty alcohol $RO(C_2H_4O)_n(C_3H_6O)_mH$ $R = C_{16} \div 18$	Light yellow to brown clear or slightly turbid liquid.	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Anti-foaming agent in water systems in paper and food industry.
<b>Rokanol NL5</b>	Oxyethylenated synthetic fatty alcohol. $RO(CH_2CH_2O)_5H$ $R = C_9-C_{11}$	Clear or slightly turbid liquid	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Component of cleaning and washing agents.
<b>Rokanol NL6</b>	Oxyethylenated synthetic fatty alcohol. $RO(CH_2CH_2O)_6H$ $R = C_9-C_{11}$	Clear or slightly turbid liquid	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Component of cleaning and washing agents.
<b>Rokanol NL8</b>	Oxyethylenated synthetic fatty alcohol. $RO(CH_2CH_2O)_8H$ $R = C_9-C_{11}$	Clear or slightly turbid liquid	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Component of cleaning and washing agents.
<b>Rokanol NL8P4</b>	Polyoxyalkylene ether of synthetic fatty alcohol $C_9-C_{11}$	Clear or slightly turbid liquid	Polyethylene drums $V = 120, 220 \text{ dm}^3$ .	Component of cleaning and washing agents with very good wetting properties, emulsification and dispersion properties

## 6. Block copolymers of ethylene- and propylene- oxide

Product	Chemical formula Composition	Appearance Active substance content	Packing	Application
<b>Rokopol 30P5</b> Block copolymer of ethylene oxide and propylene oxide	$\begin{array}{c} \text{CH}_3 \\   \\ \text{HO}(\text{CH}_2\text{CH}_2\text{O})_x(\text{CH}-\text{CH}_2\text{O})_y(\text{CH}_2\text{CH}_2\text{O})_z\text{H} \\ (x+z)_{\text{av.}} = \text{ok. } 5, y_{\text{av.}} = \text{ab. } 30 \end{array}$	Clear, light yellow to yellow liquid, at temp. 25°C Water content: max. 5 %.	Dark coloured polyethylene drums: V = 200 dm <sup>3</sup>	In household chemistry products, in textile industry as wetting, dispersing, washing and emulsifying agent.
<b>Rokopol 30P10</b> Block copolymer of ethylene oxide and propylene oxide	$\begin{array}{c} \text{CH}_3 \\   \\ \text{HO}(\text{CH}_2\text{CH}_2\text{O})_x(\text{CH}-\text{CH}_2\text{O})_y(\text{CH}_2\text{CH}_2\text{O})_z\text{H} \\ (x+z)_{\text{av.}} = \text{ok. } 10, y_{\text{av.}} = \text{ab. } 30 \end{array}$	Clear, light yellow to yellow liquid.	Polyethylene drums: V = 120 dm <sup>3</sup>	In household chemistry products, in textile industry as wetting, dispersing, washing and emulsifying agent.
<b>Rokopol 30P27</b> Block copolymer of ethylene oxide and propylene oxide	$\begin{array}{c} \text{CH}_3 \\   \\ \text{HO}(\text{CH}_2\text{CH}_2\text{O})_x(\text{CH}-\text{CH}_2\text{O})_y(\text{CH}_2\text{CH}_2\text{O})_z\text{H} \\ (x+z)_{\text{av.}} = \text{ok. } 27, y_{\text{av.}} = \text{ab. } 30 \end{array}$	Semi-liquid light-yellow to yellow paste. Water content: max. 1 %	Polyethylene drums: V = 120, 220 dm <sup>3</sup>	Component of emulsifying, washing, dispersing, wetting and softening agents.
<b>Rokopol 30P160</b> Block copolymer of ethylene oxide and propylene oxide	$\begin{array}{c} \text{CH}_3 \\   \\ \text{HO}(\text{CH}_2\text{CH}_2\text{O})_x(\text{CH}-\text{CH}_2\text{O})_y(\text{CH}_2\text{CH}_2\text{O})_z\text{H} \\ (x+z)_{\text{av.}} = \text{ok. } 160, y_{\text{av.}} = \text{ab. } 30 \end{array}$	White to light yellow wax. Water content: max. 1 %.	Polyethylene drums: V = 120, 220 dm <sup>3</sup>	Component of emulsifying, washing, dispersing and wetting agents.
<b>Rokopol 30P160/50</b>	Water solution of Rokopol 30P160.	Viscous, colourless or light yellow coloured liquid. Water content: 46 ÷ 52 %.	Polyethylene drums: V = 120, 220 dm <sup>3</sup>	Component of polish bath at galvanic metalworking.

## 7. Products on basis of fatty amines

Product	Chemical formula Composition	Appearance Active substance content	Packing	Application
<b>Rokamin K15</b>	Mixture of polyoxyethylenedodecylamine and polyoxyethylenetetradecylamine	Light to dark brown liquid. Water content: max. 3 %.	Polyethylene drums V = 60, 120, 220 dm <sup>3</sup> .	In artificial fibre industry as modifier of viscose fibres.
<b>Rokamin SR2</b> Mixture of diethanolalkylamines	$\text{CH}_3(\text{CH}_2)_n-\text{N} \begin{cases} \text{C}_2\text{H}_4\text{OH} \\ \text{C}_2\text{H}_4\text{OH} \end{cases}$ n = 13 - 21	Yellow to brown paste. Water content: max. 1 %.	Polyethylene drums V = 60, 120, 220 dm <sup>3</sup> .	Emulsifier and equalizing agent in fabric dyeing.
<b>Rokamin SR5</b> Mixture of polyoxyethylenealkylamines	$\text{CH}_3(\text{CH}_2)_n-\text{N} \begin{cases} (\text{C}_2\text{H}_4\text{O})_x\text{H} \\ (\text{C}_2\text{H}_4\text{O})_y\text{H} \end{cases}$ n = 13 - 21, (x+y) <sub>av.</sub> = ab. 5	Light brown to brown. Water content: max. 1 % .	Polyethylene drums V = 60, 120, 220 dm <sup>3</sup> .	Emulsifier and equalizing agent in fabric dyeing.
<b>Rokamin SR8</b> Water solution of polyoxyethylenealkylamine mixture	$\text{CH}_3(\text{CH}_2)_n-\text{N} \begin{cases} (\text{C}_2\text{H}_4\text{O})_x\text{H} \\ (\text{C}_2\text{H}_4\text{O})_y\text{H} \end{cases}$ n = 13 - 21, (x+y) <sub>av.</sub> = ok. 8	Yellow to brown paste. Water content: 23 - 28 %.	Polyethylene drums V = 60, 120, 220 dm <sup>3</sup> .	Emulsifier and equalizing agent in fabric dyeing.



Product	Chemical formula Composition	Appearance Active substance content	Packing	Application
<b>Rokamin SR8 konc.</b> Mixture of polyoxyethylenealkylamines	$\text{CH}_3(\text{CH}_2)_n-\text{N} \begin{cases} (\text{C}_2\text{H}_4\text{O})_x\text{H} \\ (\text{C}_2\text{H}_4\text{O})_y\text{H} \end{cases}$ $n = 13 - 21, (x+y)_{\text{av.}} = \text{ab.}$ <p style="text-align: center;">8</p>	Yellow to brown liquid.	Polyethylene drums V = 60, 120, 220 dm <sup>3</sup> .	Emulsifier and equalizing agent in fabric dyeing.
<b>Rokamin SR8P4</b> Mixture of polyoxyethylenealkylamines	$\text{CH}_3(\text{CH}_2)_n-\text{N} \begin{cases} (\text{C}_2\text{H}_4\text{O})_x(\text{C}_3\text{H}_6\text{O})_w\text{H} \\ (\text{C}_2\text{H}_4\text{O})_y(\text{C}_3\text{H}_6\text{O})_z\text{H} \end{cases}$ $n = 13 - 21, (x+y)_{\text{av.}} = \text{ok. } 8, (w+z)_{\text{av.}} = \text{ab. } 4$	Yellow to brown liquid.	Polyethylene drums V = 60, 120, 220 dm <sup>3</sup> .	Emulsifier and equalizing agent in fabric dyeing.
<b>Rokamin SR11</b> Mixture of polyoxyethylenealkylamines	$\text{CH}_3(\text{CH}_2)_n-\text{N} \begin{cases} (\text{C}_2\text{H}_4\text{O})_x\text{H} \\ (\text{C}_2\text{H}_4\text{O})_y\text{H} \end{cases}$ $n = 13 - 21, (x+y)_{\text{av.}} = \text{ab. } 11$	Light brown to brown paste. Water content: max. 1 %.	Polyethylene drums V = 60, 120, 220 dm <sup>3</sup> .	Emulsifier and equalizing agent in fabric dyeing.
<b>Rokamin SR22</b> Mixture of polyoxyethylenealkylamines	$\text{CH}_3(\text{CH}_2)_n-\text{N} \begin{cases} (\text{C}_2\text{H}_4\text{O})_x\text{H} \\ (\text{C}_2\text{H}_4\text{O})_y\text{H} \end{cases}$ $n = 13 - 21, (x+y)_{\text{av.}} = \text{ab. } 22$	Light brown to brown paste. Water content: max. 1 %.	Metal drums V = 200 dm <sup>3</sup> .	Emulsifier and equalizing agent in fabric dyeing.

## Group – Alfabetic List of Products:

1.	Polyethylene glycols – PEG .....	2
	Polikol 300 .....	2
	Polikol 400 .....	2
	Polikol 600 .....	2
	Polikol 1500 .....	2
	Polikol 1500 flakes .....	2
	Polikol 1500/60 .....	2
	Polikol 4500 .....	2
	Polikol 4500 flakes .....	2
	Polikol 6000 .....	2
	Polikol 6000 flakes .....	2
	Polikol 8000 .....	2
2.	Non-ionic surfactants on the basis of fatty acids .....	3
	Rokacet O7 .....	3
	Rokacet R26 .....	3
	Rokacet R40 .....	3
	Rokacet RZ17 .....	3
	Rokacet RZG2 .....	3
	Rokacet RZG2P2 .....	3
	Rokacet RO6 .....	3
	Rokacet RZG7P2 .....	3
	Rokacet S2 .....	3
	Rokacet S7 .....	3
	Rokacet S8 .....	3
	Rokacet S24 .....	3
3.	Non-ionic surfactants on the basis of phenol and alkylphenol .....	4
	Rokafenol N3 .....	4
	Rokafenol N4 .....	4
	Rokafenol N5 .....	4
	Rokafenol N6 .....	4
	Rokafenol N7 .....	4
	Rokafenol N22 .....	4
	Rokafenol N30/70 .....	4
	Rokafenol N40 .....	4
	Rokafenol N8P7 .....	4
	Rokafenol N8P14 .....	4
4.	Non-ionic surfactants on the basis of fatty acid amides .....	5
	Rokamid K35 .....	5
	Rokamid MRZ17 .....	5
5.	Non-ionic surfactants on the basis of fatty alcohols .....	5
	Rokanol B2 .....	5
	Rokanol B3 .....	5
	Rokanol DB3 .....	5
	Rokanol DB5 .....	5
	Rokanol DB7 .....	5
	Rokanol DB7W .....	5
	Rokanol DB12 .....	5
	Rokanol IB2 .....	5
	Rokanol IT7 .....	5
	Rokanol IT9 .....	5
	Rokanol K3 .....	5
	Rokanol K7 .....	6
	Rokanol LK2 .....	6
	Rokanol LK3 .....	6
	Rokanol L3S .....	6
	Rokanol L4 .....	6
	Rokanol L4P5 .....	6
	Rokanol L7 .....	6
	Rokanol L10 .....	6
	Rokanol L80/50W .....	6
	Rokanol Ł10 .....	6
	Rokanol Ł18 .....	6
	Rokanol ŁO18 .....	6
	Rokanol O3 .....	6
	Rokanol O18 .....	7
	Rokanol O100 .....	7
	Rokanol RZ4P11 .....	7
	Rokanol NL5 .....	7
	Rokanol NL6 .....	7
	Rokanol NL8 .....	7
	Rokanol NL8P4 .....	7
6.	Block copolymers of ethylene- and propylene- oxide .....	8
	Rokopol 30P5 .....	8
	Rokopol 30P10 .....	8
	Rokopol 30P27 .....	8
	Rokopol 30P160 .....	8
	Rokopol 30P160/50 .....	8
7.	Products on basis of fatty amines .....	8
	Rokamin K15 .....	8
	Rokamin SR2 .....	8
	Rokamin SR5 .....	8
	Rokamin SR8 .....	8
	Rokamin SR8 konc. ....	9
	Rokamin SR8P4 .....	9
	Rokamin SR11 .....	9
	Rokamin SR22 .....	9