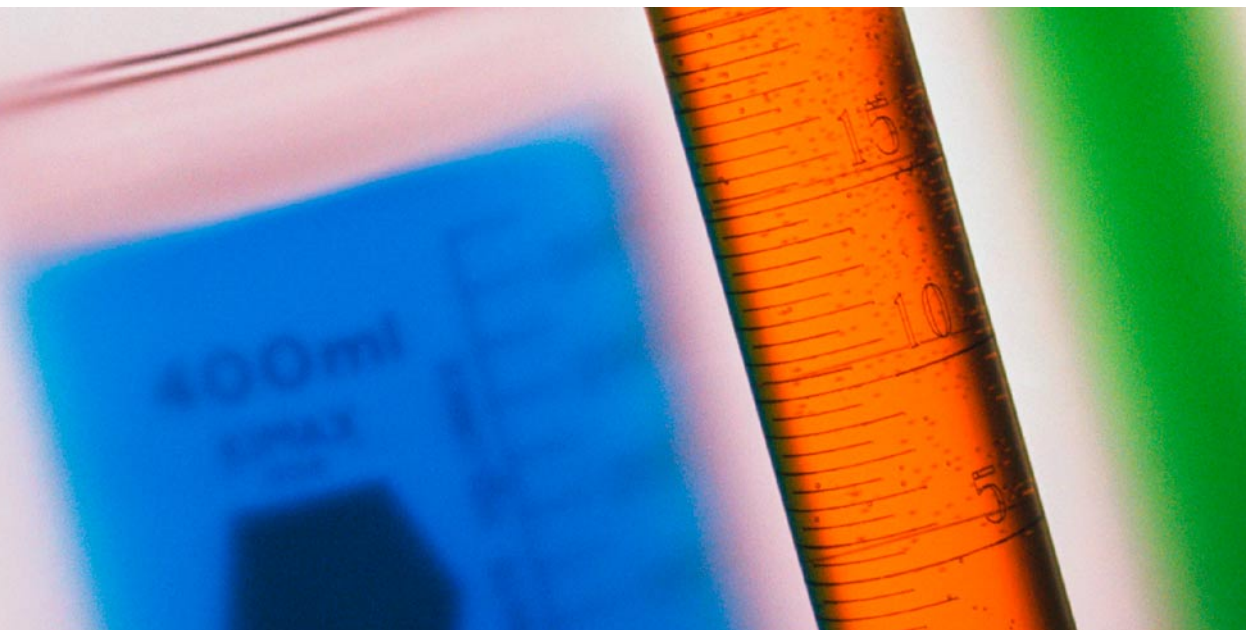
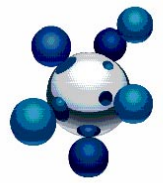


**SASOL**  
reaching new frontiers



## ***Sasol Olefins & Surfactants***

*NACOL® C<sub>6</sub>-C<sub>22</sub> Single Fractions*

*NAFOL® C<sub>10</sub>-C<sub>28</sub> Blends*

*Linear Alcohols*

NACOL® C<sub>6</sub>-C<sub>22</sub> Single Fractions

NAFOL® C<sub>10</sub>-C<sub>28</sub> Blends

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# 1

## Linear Alcohols

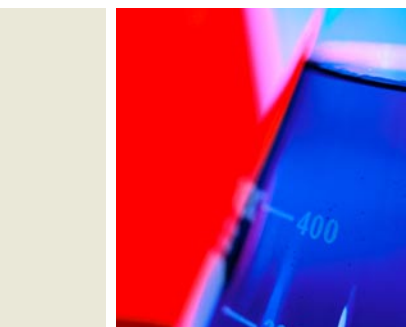
NACOL® (C<sub>6</sub>-C<sub>22</sub> Single Fractions),  
NAFOL® (C<sub>10</sub>-C<sub>28</sub> Blends)

Sasol Olefins & Surfactants GmbH is a worldwide market leader of linear, even-numbered, saturated alcohols and their derivatives which are manufactured at the Sasol Brunsbüttel Plant. Our alcohols are manufactured from petrochemical and natural raw materials in different, fully independent production processes. This unique combination of processes, which yields chemically identical products, ensures exceptional flexibility, a high quality standard, supply security, and a wide variety of products which can be tailor-made to meet individual customer requirements. Sasol alcohols and derivatives can be used to manufacture a multitude of products.

We market our linear alcohols worldwide under the following trademarks:

- NACOL® – Single fractions of linear alcohols C<sub>6</sub> – C<sub>22</sub>
- LINCOL® – Blends of linear alcohols C<sub>6</sub> – C<sub>12</sub>
- NAFOL® – Blends of linear alcohols C<sub>10</sub> – C<sub>28</sub>
- ALFOL® – Blends and single fractions of linear alcohols C<sub>6</sub> - C<sub>22</sub>+

Our diversified product range additionally includes special blends manufactured according to customer specifications.



# 2

## Applications

### **Cosmetics and Pharmaceuticals**

*Creams  
Lotions  
Lipsticks  
Toothpastes  
Perfume bases*

### **Toiletries**

*Shampoos  
Bubble baths  
Hair conditioners*

### **Detergents and Cleaners**

*Detergents  
Powders  
Liquid detergents  
Cleaners  
Laundry softeners*

### **Plastics Additives**

*Linear plasticizers  
Lubricants  
Stabilizers  
Polymerization  
auxiliaries*

### **Additives for the Leather and Textile Industries**

*Fiber finishes  
Spin preparations  
Wetting agents  
Levelling agents  
Softeners*

### **Metal Processing**

*Coupling agents  
Aluminium rolling oils  
Hydraulic oils  
Metal working liquids*

### **Water Evaporation Retardants**

### **Defoamers for the Paper Industry**

### **Pour Point Depres- sants for Crude Oil**

### **Lubricating Oil Additives**

*Viscosity index improvers*

### **Flotation Agents**

### **Disinfectants**

### **Agrochemicals**

### **Flavours and Fragrances**

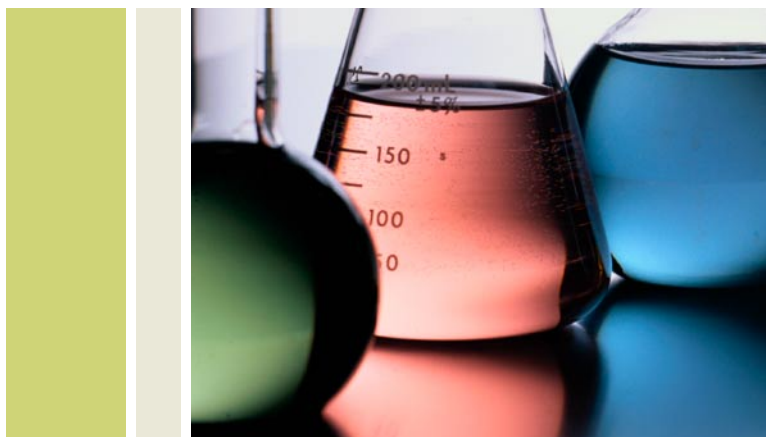
# 3

## Other Products and Trademarks

Based on our linear alcohols we produce the following specialities:

- **LINPLAST®** – Plasticizers made from alcohols
- **ISOFOL®** – Defined branched Guerbet alcohols C<sub>12</sub> – C<sub>32</sub>
- **ISOCARB®** – Defined branched Guerbet acids
- **GALENOL®** – Self-emulsifying blends of linear alcohols

Detailed product data are contained in our brochures  
**LINCOL®**, **LINPLAST®**, **ISOFOL®**, and **GALENOL®**.



## 4

## NACOL®

Linear Alcohols – C<sub>6</sub>-C<sub>22</sub> Single Fractions

		NACOL® 6-98	NACOL® 8-98	NACOL® 8-99
Single Fractions		1-Hexanol	1-Octanol	1-Octanol
<b>Sales Specification</b>				
Individual Alcohol	[%]	98.0 min.	98.0 min.	99.0 min.
Content				
Colour	[Hazen]	10.0 max.	10.0 max.	10.0 max.
Ester Number	[mg KOH/g]	0.1 max.	0.1 max.	0.1 max.
Acid Number	[mg KOH/g]	0.02 max.	0.03 max.	0.03 max.
Iodine Number	[mg I/100 mg]	0.1 max.	0.1 max.	0.1 max.
Water Content	[wt. %]	0.1 max.	0.1 max.	0.1 max.
<b>Additional Properties</b>				
Density	[g/ml]	ap. 0.817–0.821 (20°C)	ap. 0.823–0.827 (20°C)	ap. 0.823–0.827 (20°C)
Pour Point	[°C]	approx. –52	approx. –16	approx. –14
Solidification Point	[°C]	–	–	–
Boiling Range	[°C]	150–170	185–200	188–198
Flash Point	[°C]	approx. 61	approx. 82	approx. 82
Molecular Weight	[g/mol]	102	130	130
Hydroxyl Number	[mg KOH/g]	540–555	424–432	428–435



		<b>NACOL® 10-97</b>	<b>NACOL® 10-99</b>	<b>NACOL® 12-96</b>	<b>NACOL® 12-99</b>
<i>Single Fractions</i>		<i>1-Decanol</i>	<i>1-Decanol</i>	<i>1-Dodecanol</i>	<i>1-Dodecanol</i>
<b>Sales Specification</b>					
<i>Individual</i>	<i>[%]</i>	<i>97.5 min.</i>	<i>99.0 min.</i>	<i>96.5 min.</i>	<i>99.0 min.</i>
<i>Alcohol Content</i>					
<i>Colour</i>	<i>[Hazen]</i>	<i>10.0 max.</i>	<i>10.0 max.</i>	<i>10.0 max.</i>	<i>10.0 max.</i>
<i>Ester Number</i>	<i>[mg KOH/g]</i>	<i>0.1 max.</i>	<i>0.1 max.</i>	<i>0.15 max.</i>	<i>0.1 max.</i>
<i>Acid Number</i>	<i>[mg KOH/g]</i>	<i>0.03 max.</i>	<i>0.03 max.</i>	<i>0.03 max.</i>	<i>0.03 max.</i>
<i>Iodine Number</i>	<i>[mg I/100 mg]</i>	<i>0.1 max.</i>	<i>0.1 max.</i>	<i>0.1 max.</i>	<i>0.1 max.</i>
<i>Water Content</i>	<i>[wt. %]</i>	<i>0.1 max.</i>	<i>0.1 max.</i>	<i>0.1 max.</i>	<i>0.1 max.</i>
<b>Additional Properties</b>					
<i>Density</i>	<i>[g/ml]</i>	<i>ap. 0.829 (20°C)</i>	<i>ap. 0.829 (20°C)</i>	<i>ap. 0.822 (40°C)</i>	<i>ap. 0.822 (40°C)</i>
<i>Pour Point</i>	<i>[°C]</i>	<i>approx. 6</i>	<i>approx. 6</i>	<i>–</i>	<i>–</i>
<i>Solidification Point</i>	<i>[°C]</i>	<i>–</i>	<i>–</i>	<i>22 – 24</i>	<i>23 – 25</i>
<i>Boiling Range</i>	<i>[°C]</i>	<i>220 – 235</i>	<i>220 – 235</i>	<i>255 – 265</i>	<i>258 – 265</i>
<i>Flash Point</i>	<i>[°C]</i>	<i>approx. 95</i>	<i>approx. 95</i>	<i>approx. 116</i>	<i>approx. 119</i>
<i>Molecular Weight</i>	<i>[g/mol]</i>	<i>158</i>	<i>158</i>	<i>186</i>	<i>186</i>
<i>Hydroxyl Number</i>	<i>[mg KOH/g]</i>	<i>350 – 357</i>	<i>350 – 357</i>	<i>295 – 305</i>	<i>299 – 304</i>

# NACOL®

## Linear Alcohols – C<sub>6</sub>-C<sub>22</sub> Single Fractions

		NACOL® 14-95	NACOL® 14-98	NACOL® 16-95	NACOL® 16-98
<i>Single Fractions</i>		1-Tetradecanol	1-Tetradecanol	1-Hexadecanol	1-Hexadecanol
<b>Sales Specification</b>					
Individual Alcohol Content	[%]	95.0 min.	98.5 min.	95.0 min.	98.0 min.
Colour	[Hazen]	10.0 max.	10.0 max.	10.0 max.	10.0 max.
Ester Number	[mg KOH/g]	0.2 max.	0.2 max.	0.5 max.	0.5 max.
Acid Number	[mg KOH/g]	0.03 max.	0.03 max.	0.05 max.	0.05 max.
Iodine Number	[mg I/100 mg]	0.1 max.	0.1 max.	0.25 max.	0.25 max.
Water Content	[wt. %]	0.1 max.	0.1 max.	0.1 max.	0.1 max.
<b>Additional Properties</b>					
Density	[g/ml]	approx. 0.809 (60°C)	approx. 0.809 (60°C)	approx. 0.812 (60°C)	approx. 0.812 (60°C)
Pour Point	[°C]	–	–	–	–
Solidification Point	[°C]	36 – 38	37 – 39	45 – 49	47 – 50
Boiling Range	[°C]	275 – 290	270 – 290	300 – 320	305 – 320
Flash Point	[°C]	approx. 145	approx. 145	approx. 175	approx. 175
Molecular Weight	[g/mol]	214	214	242	242
Hydroxyl Number	[mg KOH/g]	256 – 262	258 – 262	226 – 235	226 – 235





		<b>NACOL® 18-98</b>	<b>NACOL® 18-99</b>	<b>NACOL® 20-95</b>	<b>NACOL® 22-98</b>
<i>Single Fractions</i>		<i>1-Octadecanol</i>	<i>1-Octadecanol</i>	<i>1-Eicosanol</i>	<i>1-Docosanol</i>
<b>Sales Specification</b>					
<i>Individual</i>	<i>[%]</i>	<i>98.0 min.</i>	<i>99.0 min.</i>	<i>95.0 min.</i>	<i>98.0 min.</i>
<i>Alcohol Content</i>					
<i>Colour</i>	<i>[Hazen]</i>	<i>10.0 max.</i>	<i>10.0 max.</i>	<i>20.0 max.</i>	<i>30.0 max.</i>
<i>Ester Number</i>	<i>[mg KOH/g]</i>	<i>0.1 max.</i>	<i>0.1 max.</i>	<i>0.3 max.</i>	<i>0.2 max.</i>
<i>Acid Number</i>	<i>[mg KOH/g]</i>	<i>0.05 max.</i>	<i>0.05 max.</i>	<i>0.05 max.</i>	<i>0.1 max.</i>
<i>Iodine Number</i>	<i>[mg I/100 mg]</i>	<i>0.25 max.</i>	<i>0.15 max.</i>	<i>1.0 max.</i>	<i>0.5 max.</i>
<i>Water Content</i>	<i>[wt. %]</i>	<i>0.1 max.</i>	<i>0.1 max.</i>	<i>0.1 max.</i>	<i>0.1 max.</i>
<b>Additional Properties</b>					
<i>Density</i>	<i>[g/ml]</i>	<i>approx. 0.815 (60°C)</i>	<i>approx. 0.815 (60°C)</i>	<i>approx. 0.802 (80°C)</i>	<i>approx. 0.807 (80°C)</i>
<i>Pour Point</i>	<i>[°C]</i>	<i>–</i>	<i>–</i>	<i>–</i>	<i>–</i>
<i>Solidification Point</i>	<i>[°C]</i>	<i>56 – 59</i>	<i>56 – 59</i>	<i>62 – 66</i>	<i>68 – 71</i>
<i>Boiling Range</i>	<i>[°C]</i>	<i>325 – 340</i>	<i>325 – 340</i>	<i>–</i>	<i>–</i>
<i>Flash Point</i>	<i>[°C]</i>	<i>approx. 174</i>	<i>approx. 174</i>	<i>approx. 195</i>	<i>approx. 227</i>
<i>Molecular Weight</i>	<i>[g/mol]</i>	<i>270</i>	<i>270</i>	<i>298</i>	<i>326</i>
<i>Hydroxyl Number</i>	<i>[mg KOH/g]</i>	<i>200 – 210</i>	<i>200 – 210</i>	<i>180 – 188</i>	<i>168 – 171</i>

*Other single fractions are available on request.*

# 5

## NAFOL®

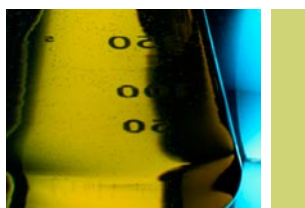
### Linear Alcohols – C<sub>8</sub> - C<sub>28</sub> Blends

		NAFOL® 810 D	NAFOL® 10 D	NAFOL® 1012
<b>Sales Specification</b>				
Alcohol Composition	[%]	C <sub>6</sub> – OH 1.0 max. C <sub>8</sub> – OH 43.0 ± 4 C <sub>10</sub> – OH 55.0 ± 4 C <sub>12</sub> – OH 1.0 max.	C <sub>8</sub> – OH 10.0 max. C <sub>10</sub> – OH 90.0 min. C <sub>12</sub> – OH 4.0 max.	C <sub>8</sub> – OH 1.0 max. C <sub>10</sub> – OH 85.0 ± 4 C <sub>12</sub> – OH 8.5 ± 2 C <sub>14</sub> – OH 6.5 ± 2 C <sub>16</sub> – OH 0.5 max.
Colour	[Hazen]	10.0 max.	10.0 max.	10.0 max.
Ester Number	[mg KOH/g]	0.1 max.	0.1 max.	0.1 max.
Acid Number	[mg KOH/g]	0.03 max.	0.03 max.	0.03 max.
Iodine Number	[mg I/100 mg]	0.1 max.	0.1 max.	0.1 max.
Water Content	[wt. %]	0.1 max.	0.1 max.	0.1 max.
<b>Additional Properties</b>				
Alcohol Content	[%]	99.0 min.	99.0 min.	99.0 min.
Density	[g/ml]	approx. 0.827 (20°C)	approx. 0.829 (20°C)	approx. 0.830 (20°C)
Solidification Point	[°C]	approx. -11 <sup>1</sup>	approx. +3 <sup>1</sup>	- 2 to +2
Boiling Range	[°C]	195 – 240	215 – 240	220 – 285
Flash Point	[°C]	approx. 85	approx. 95	approx. 105
Molecular Weight	[g/mol]	143 – 148	155 – 162	160 – 168
Hydroxyl Number	[mg KOH/g]	380 – 390	345 – 365	335 – 350

<sup>1)</sup> Pour point



		NAFOL® 1214	NAFOL® 1214 S	NAFOL® 1214 Z
<b>Sales Specification</b>				
Alcohol	[%]	C <sub>10</sub> – OH 1.5 max.	C <sub>10</sub> – OH 1.5 max.	C <sub>10</sub> – OH 0.5 max.
Composition		C <sub>12</sub> – OH 54.0 ± 3	C <sub>12</sub> – OH 70.0 ± 3	C <sub>12</sub> – OH 68.0 ± 3
		C <sub>14</sub> – OH 44.0 ± 3	C <sub>14</sub> – OH 27.0 ± 3	C <sub>14</sub> – OH 27.0 ± 3
		C <sub>16</sub> – OH 1.5 max.	C <sub>16</sub> – OH 1.5 max.	C <sub>16</sub> – OH 6.0 ± 2
				C <sub>18</sub> – OH 0.5 max.
Colour	[Hazen]	10.0 max.	10.0 max.	10.0 max.
Ester Number	[mg KOH/g]	0.3 max.	0.3 max.	0.3 max.
Acid Number	[mg KOH/g]	0.03 max.	0.03 max.	0.05 max.
Iodine Number	[mg I/100 mg]	0.1 max.	0.1 max.	0.1 max.
Water Content	[wt. %]	0.1 max.	0.1 max.	0.1 max.
<b>Additional Properties</b>				
Alcohol Content	[%]	99.0 min.	99.0 min.	99.0 min.
Density	[g/ml]	approx. 0.822 (40°C)	approx. 0.822 (40°C)	approx. 0.822 (40°C)
Solidification Point	[°C]	22–25	19–22	19–22
Boiling Range	[°C]	265 – 295	260 – 290	255 – 305
Flash Point	[°C]	approx. 130	approx. 130	approx. 137
Molecular Weight	[g/mol]	195 – 203	190 – 197	193 – 200
Hydroxyl Number	[mg KOH/g]	276 – 287	285 – 295	280 – 290



## NAFOL®

### Linear Alcohols – C<sub>10</sub> - C<sub>28</sub> Blends

		NAFOL® 1412 H	NAFOL® 1218	NAFOL® 1218 D
<b>Sales Specification</b>				
Alcohol	[%]	C <sub>10</sub> – OH 1.5 max.	C <sub>10</sub> – OH 2.0 max.	C <sub>10</sub> – OH 1.0 max.
Composition		C <sub>12</sub> – OH 33.0 ± 3	C <sub>12</sub> – OH 40.0 ± 4	C <sub>12</sub> – OH 27.0 ± 3
		C <sub>14</sub> – OH 64.0 ± 4	C <sub>14</sub> – OH 30.0 ± 4	C <sub>14</sub> – OH 23.0 ± 3
		C <sub>16</sub> – OH 2.0 max.	C <sub>16</sub> – OH 18.0 ± 2	C <sub>16</sub> – OH 26.0 ± 5
			C <sub>18</sub> – OH 10.0 ± 2	C <sub>18</sub> – OH 23.0 ± 5
			C <sub>20</sub> – OH 1.0 max.	C <sub>20</sub> – OH 2.0 max.
Colour	[Hazen]	10.0 max.	10.0 max.	10.0 max.
Ester Number	[mg KOH/g]	0.3 max.	0.5 max.	0.5 max.
Acid Number	[mg KOH/g]	0.05 max.	0.05 max.	0.05 max.
Iodine Number	[mg I/100 mg]	0.1 max.	0.2 max.	0.2 max.
Water Content	[wt. %]	0.1 max.	0.1 max.	0.1 max.
<b>Additional Properties</b>				
Alcohol Content	[%]	99.0 min.	98.5 min.	98.5 min.
Density	[g/ml]	approx. 0.822 (40°C)	approx. 0.823 (40°C)	approx. 0.823 (40°C)
Solidification Point	[°C]	26–29	25–28	30–34
Boiling Range	[°C]	265 – 300	270 – 335	270 – 340
Flash Point	[°C]	approx. 130	approx. 145	approx. 135
Molecular Weight	[g/mol]	197 – 208	204 – 216	218 – 224
Hydroxyl Number	[mg KOH/g]	270 – 285	260 – 275	246 – 254



		<b>NAFOL® 1218 K</b>	<b>NAFOL® 1618</b>	<b>NAFOL® 1618 H</b>
<b>Sales Specification</b>				
Alcohol	[%]	$C_{10} - OH$ 3.0 max.	$C_{12} - OH$ 0.2 max.	$C_{12} - OH$ 0.2 max.
Composition		$C_{12} - OH$ 53.0 ± 5	$C_{14} - OH$ 2.0 max.	$C_{14} - OH$ 2.0 max.
		$C_{14} - OH$ 21.0 ± 3	$C_{16} - OH$ 63.0 ± 4	$C_{16} - OH$ 48.5 ± 3.5
		$C_{16} - OH$ 10.0 ± 2	$C_{18} - OH$ 33.0 ± 4	$C_{18} - OH$ 48.5 ± 3.5
		$C_{18} - OH$ 11.0 ± 2	$C_{20} - OH$ 3.0 max.	$C_{20} - OH$ 3.0 max.
		$C_{20} - OH$ 1.0 max.	$C_{22} - OH$ 0.2 max.	$C_{22} - OH$ 0.2 max.
Colour	[Hazen]	10.0 max.	10.0 max.	10.0 max.
Ester Number	[mg KOH/g]	0.25 max.	0.8 max.	0.8 max.
Acid Number	[mg KOH/g]	0.05 max.	0.05 max.	0.05 max.
Iodine Number	[mg I/100 mg]	0.2 max.	0.4 max.	0.4 max.
Water Content	[wt. %]	0.1 max.	0.1 max.	0.1 max.
<b>Additional properties</b>				
Alcohol Content	[%]	98.5 min.	98.5 min.	98.5 min.
Density	[g/ml]	approx. 0.823 (40°C)	approx. 0.814 (60°C)	approx. 0.815 (60°C)
Solidification	[°C]	22 – 26	46 – 49	47 – 51
Point				
Boiling Range	[°C]	270 – 335	300 – 350	300 – 355
Flash Point	[°C]	approx. 146	approx. 176	approx. 180
Molecular	[g/mol]	204 – 212	248 – 260	253 – 262
Weight				
Hydroxyl	[mg KOH/g]	265 – 275	216 – 226	214 – 220
Number				

Other blends are available on request.

## NAFOL®

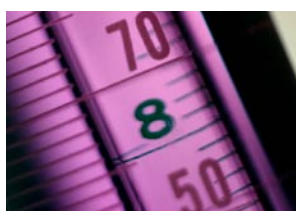
### Linear Alcohols – C<sub>10</sub> - C<sub>28</sub> Blends

		NAFOL® 1618 L	NAFOL® 1618 S	NAFOL® 1620
<b>Sales Specification</b>				
Alcohol Composition	[%]	C <sub>12</sub> – OH 0.2 max. C <sub>14</sub> – OH 3.0 max. C <sub>16</sub> – OH 73.0 ± 3 C <sub>18</sub> – OH 22.0 ± 2 C <sub>20</sub> – OH 2.0 max. C <sub>22</sub> – OH 0.2 max.	C <sub>12</sub> – OH 0.4 max. C <sub>14</sub> – OH 4.0 max. C <sub>16</sub> – OH 27.0 ± 4 C <sub>18</sub> – OH 70.0 ± 5 C <sub>20</sub> – OH 2.0 max. C <sub>22</sub> – OH 0.2 max.	C <sub>12</sub> – OH 0.2 max. C <sub>14</sub> – OH 2.0 max. C <sub>16</sub> – OH 51.0 ± 4 C <sub>18</sub> – OH 30.0 ± 4 C <sub>20</sub> – OH 14.0 ± 4 C <sub>22</sub> – OH 3.0 max. C <sub>24</sub> – OH 0.2 max.
Colour	[Hazen]	10.0 max.	10.0 max.	30.0 max.
Ester Number	[mg KOH/g]	0.8 max.	0.8 max.	1.0 max.
Acid Number	[mg KOH/g]	0.05 max.	0.05 max.	0.1 max.
Iodine Number	[mg I/100 mg]	0.4 max.	0.4 max.	0.6 max.
Water Content	[wt. %]	0.1 max.	0.1 max.	0.1 max.
<b>Additional Properties</b>				
Alcohol Content	[%]	98.5 min.	98.5 min.	97.5 min.
Density	[g/ml]	approx. 0.815 (60°C)	approx. 0.815 (60°C)	approx. 0.815 (60°C)
Solidification Point	[°C]	45–49	50–54	45–49
Boiling Range	[°C]	300 – 355	300 – 355	> 300
Flash Point	[°C]	approx. 170	approx. 183	approx. 175
Molecular Weight	[g/mol]	250 – 260	257 – 267	255 – 269
Hydroxyl Number	[mg KOH/g]	216 – 224	210 – 216	208 – 220



		<b>NAFOL® 1822</b>	<b>NAFOL® 1822 B</b>	<b>NAFOL® 1822 C</b>
<b>Sales Specification</b>				
Alcohol	[%]	C <sub>16</sub> – OH 1.0 max.	C <sub>16</sub> – OH 1.0 max.	C <sub>16</sub> – OH 0.5 max.
Composition		C <sub>18</sub> – OH 43.0 ± 2	C <sub>18</sub> – OH 15.0 ± 1	C <sub>18</sub> – OH 5.0 ± 1
		C <sub>20</sub> – OH 11.0 ± 2	C <sub>20</sub> – OH 15.0 ± 1	C <sub>20</sub> – OH 17.0 ± 2
		C <sub>22</sub> – OH 44.0 ± 2	C <sub>22</sub> – OH 69.0 ± 2	C <sub>22</sub> – OH 76.0 ± 2
		C <sub>24</sub> – OH 1.0 max.	C <sub>24</sub> – OH 1.0 max.	C <sub>24</sub> – OH 1.5 max.
Colour	[Hazen]	20.0 max.	20.0 max.	20.0 max.
Ester Number	[mg KOH/g]	0.15 max.	0.3 max.	0.3 max.
Acid Number	[mg KOH/g]	0.05 max.	0.05 max.	0.05 max.
Iodine Number	[mg I/100 mg]	0.5 max.	0.5 max.	0.6 max.
Water Content	[wt. %]	0.1 max.	0.1 max.	0.1 max.
<b>Additional properties</b>				
Alcohol Content	[%]	99.0 min.	99.0 min.	99.0 min.
Density	[g/ml]	approx. 0.800 (80°C)	approx. 0.802 (80°C)	approx. 0.802 (80°C)
Solidification Point	[°C]	57–61	63–65	64–69
Boiling Range	[°C]	–	–	–
Flash Point	[°C]	approx. 202	approx. 204	approx. 204
Molecular Weight	[g/mol]	295 – 311	312 – 320	315 – 321
Hydroxyl Number	[mg KOH/g]	185 – 190	175 – 180	173 – 177

Other blends are available on request.



## NAFOL®

### Linear Alcohols – C<sub>10</sub> - C<sub>28</sub> Blends

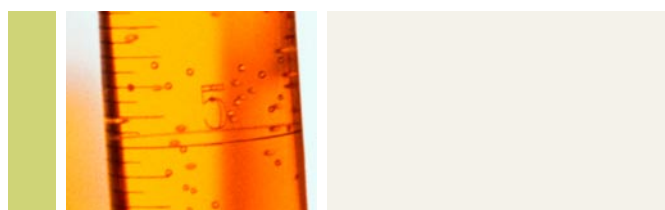
		NAFOL® 20 + A	NAFOL® 20 +
<b>Sales Specification</b>			
Alcohol Composition	[%]	C <sub>16</sub> – OH 2.0 max. C <sub>18</sub> – OH 25.0 ± 3 C <sub>20</sub> – OH 25.0 ± 4 C <sub>22</sub> – OH 35.0 ± 4 C <sub>24</sub> – OH 7.5 ± 2.5 C <sub>26</sub> – OH 4.5 ± 2.5	C <sub>16</sub> – OH 0.5 max. C <sub>18</sub> – OH 6.0 max. C <sub>20</sub> – OH 50.0 ± 10 C <sub>22</sub> – OH 29.0 ± 6 C <sub>24</sub> – OH 14.0 ± 4 C <sub>26</sub> – OH 5.0 ± 3
Colour	[Hazen]	1300.0 max.	1800.0 max.
Ester Number	[mg KOH/g]	10.0 max.	10.0 max.
Acid Number	[mg KOH/g]	0.1 max.	0.3 max.
Iodine Number	[mg I/100 mg]	20.0 max.	20.0 max.
Water Content	[wt. %]	0.1 max.	0.1 max.
<b>Additional Properties</b>			
Alcohol Content	[%]	approx. 83.0	approx. 80.0
Density	[g/ml]	approx. 0.803 (80°C)	approx. 0.805 (80°C)
Solidification Point	[°C]	54–58	53–58
Boiling Range	[°C]	–	–
Flash Point	[°C]	approx. 208	approx. 210
Molecular Weight	[g/mol]	–	–
Hydroxyl Number	[mg KOH/g]	145 – 165	130 – 150





		NAFOL® 22 +	NAFOL® 2022
<b>Sales Specification</b>			
Alcohol	[%]	$C_{18}$ -OH 1.0 max.	$C_{16}$ -OH 0.5 max.
Composition		$C_{20}$ -OH 10.0 max.	$C_{18}$ -OH 7.0 max.
		$C_{22}$ -OH 55.0 ± 10	$C_{20}$ -OH 58.0 ± 6
		$C_{24}$ -OH 25.0 ± 6	$C_{22}$ -OH 30.0 ± 5
		$C_{26}$ -OH 13.0 ± 4	$C_{24}$ -OH 6.0 max.
		$C_{28}$ -OH 9.0 max.	
Colour	[Hazen]	3500.0 max.	100.0 max.
Ester Number	[mg KOH/g]	18.0 max.	4.0 max.
Acid Number	[mg KOH/g]	1.0 max.	1.0 max.
Iodine Number	[mg I/100 mg]	26.0 max.	3.5 max.
Water Content	[wt. %]	0.1 max.	0.1 max.
<b>Additional properties</b>			
Alcohol Content	[%]	approx. 65.0	95.0 min.
Density	[g/ml]	approx. 0.807 (80°C)	approx. 0.802 (80°C)
Solidification Point	[°C]	55–65	55–61
Boiling Range	[°C]	–	–
Flash Point	[°C]	approx. 220	approx. 200
Molecular Weight	[g/mol]	–	300–315
Hydroxyl Number	[mg KOH/g]	95–130	160–185

Other blends are available on request.



## NAFOL®

### Linear Alcohols – C<sub>10</sub> - C<sub>28</sub> Blends

<b>Analytical Methods</b>		<b>Sasol Method</b>	<b>with reference to</b>
Alcohol Composition		600 – 11/12	Gas Chromatographic Method
Alcohol Content		600 – 11/12	Gas Chromatographic Method
Colour		600 – 40	DIN 53 409
Density		600 – 23	DIN 51 757
Solidification Point		600 – 22 A	DIN 53 175
Pour Point		600 – 20	ISO 3016
Boiling Range		600 – 21	DIN 51 751 DIN 53 171
Flash Point	Abel Pinsky < 65°C	600 – 26 A	DIN 51 755
	Pensky Martens 65°C – 165°C	600 – 26 B	DIN 51 758
	Cleveland > 165°C	600 – 26 C	ISO 2592
Hydroxyl Number		600 – 30	DIN 53 240
Ester Number		600 – 33	DIN 53 401
Acid Number		600 – 31	DIN 53 402
Iodine Number		600 – 39	DIN 53 241
Viscosity [ubbelohde]		600 – 25	DIN 51 562
Water Content		600 – 37	DIN 51 777
Refraction Index		600 – 24	DIN 51 423
Carbonyl Number		600 – 34	ASTME 411



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