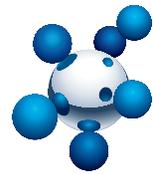


ALFOL C₆ – C₂₀

Linear Alcohols



SASOL

Sasol Performance Chemicals



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1. About Us

Sasol Performance Chemicals develops and markets a broad portfolio of organic and inorganic commodity and specialty chemicals and comprises three key business divisions: Organics, Advanced Materials and Wax. Our offices in 18 countries serve customers around the world with a multifaceted portfolio of state-of-the-art chemical products and solutions for a wide range of applications and industries.

Surfactants, surfactant intermediates, fatty alcohols, linear alkyl benzene (LAB), short-chain linear alpha olefins, mineral oil-based and synthetic paraffin waxes, high-purity and ultra-high-purity alumina as well as high-quality carbon solutions form the basis of our key product range.

As individual as the industrial applications they serve, the tailor-made solutions offered by our products create 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, inks and coatings, metalworking and lubricants, hot-melt adhesives, bitumen modification and catalyst support for automotive catalysts and refineries as well as other specialty applications including oil and gas recovery, agriculture, plastic stabilization, and polymer production. Every day, our researchers explore ways to improve our products and develop innovations that improve the quality of people's lives.



2. Applications

Plastics additives

- Linear plasticizers
- Lubricants
- Stabilizers
- Polymerization auxiliaries

Cosmetics and pharmaceuticals

- Skin care
- Hair care
- Toiletries
- Decorative cosmetics
- Perfume and fragrances

Water evaporation retardants

Defoamers for the paper industry

Pour point depressants for crude oil

Additives for the leather and textile industries

- Fibre finishes
- Spin preparations
- Wetting aids
- Levelling aids
- Softeners

Viscosity index improvers

Flotation aids

Detergents and cleaners

- Detergents
- Powders
- Liquid detergents
- Cleaners
- Laundry softeners

Metal processing

- Coupling agents
- Aluminium rolling oils
- Hydraulic oils
- Metal working fluids

Agrochemicals

Flavours and fragrances

Paints, inks, coatings and adhesives

- Coupling aids
- Wetting aids
- Levelling aids
- Digital printing inks
- Surface modifiers

3. Other Products and Trademarks

Sasol produces the following specialities based on the linear alcohols:

GALENOL	Self emulsifying blends of linear alcohols
ISOCARB	Defined branched Guerbet acids C ₁₂ to C ₃₂
LINPLAST	Plasticizers made from alcohols
NACOL Ether	Linear di-n-alkyl ethers C ₁₂ to C ₃₆
PARAFOL	High purity normal paraffin cuts C ₁₂ to C ₂₂

Product specific brochures are available with detailed information for **ISOFOL** alcohols, **ISOCARB** acids, **NACOL** ethers and **PARAFOL** pure cut paraffins.

Additional information on **GALENOL** and **LINPLAST** can be requested by contacting the local sales office listed on the back of the brochure.



Our products are used in countless applications in our daily lives to add value, security and comfort.



4. ALFOL

	ALFOL 6	ALFOL 8	ALFOL 10
Chemical name	1-hexanol	1-octanol	1-decanol
Appearance at ambient temperature	clear, colorless liquid	clear, colorless liquid	clear, colorless liquid

Sales specification

Purity	[wt. %]	98 min.	98.6 min.	97.4 min.
Carbonyl as C=O	[ppm]	–	80 max.	100 max.
Color	[APHA]	10 max.	10 max.	10 max.
Hydroxyl number	[mg KOH/g]	544 – 550	424 – 434	346 – 356
Water content	[wt. %]	0.1 max.	0.1 max.	0.1 max.
Acid number	[mg KOH/g]	0.005 max.	0.005 max.	0.005 max.
Iodine number	[mg I ₂ /100 mg]	0.2 max.	0.2 max.	0.2 max.

Additional properties

Pour point	[°C]	approx. -51	approx. -16	approx. 5
Boiling range	[°C]	156 – 158	194 – 196	231 – 234
Flash point	[°C]	approx. 61	approx. 82	approx. 113
Molecular weight	[g/mol]	approx. 102	approx. 130	approx. 158

	ALFOL 12	ALFOL 14	ALFOL 16	ALFOL 18
Chemical name	1-dodecanol	1-tetradecanol	1-hexadecanol	1-octadecanol
Appearance at ambient temperature	colorless solid	colorless solid	colorless solid	colorless solid

Sales specification

Purity	[wt. %]	97.8 min.	95.5 min.	96 min.	95 min.
Carbonyl as C=O	[ppm]	100 max.	200 max.	300 max.	700 max.
Color	[APHA]	15 max. (10)	20 max.	35 max.	40 max.
Hydroxyl number	[mg KOH/g]	295 – 302 (299)	255 – 264	225 – 235	200 – 220
Water content	[wt. %]	0.1 max. (0.01)	0.1 max.	0.1 max.	0.1 max.
Acid number	[mg KOH/g]	–	–	0.1 max	0.5 max
Iodine number	[mg I ₂ /100 mg]	0.2 max.	0.4 max	0.5 max	1 max

Additional properties

Melting point	[°C]	23 – 24	37 – 39	45 – 50	55 – 60
Boiling range	[°C]	254 – 259	297 – 301	330 – 333	350 – 354
Flash point	[°C]	approx. 129	approx. 143	approx. 149	approx. 179
Molecular weight	[g/mol]	approx. 186	approx. 214	approx. 242	approx. 270

Other pure cuts are available on request.

5. ALFOL Blends

	ALFOL 610 BDE	ALFOL 810	ALFOL 810 FD
Chemical description	Alcohol blend C 6–10	Alcohol blend C 8–10	Alcohol blend C 8–10
Appearance at ambient temperature	clear, colorless liquid	clear, colorless liquid	clear, colorless liquid

Sales specification

Alcohol composition	[wt. %]	C ₄ -OH(-) 0.5 max. C ₆ -OH 18 ± 3 C ₈ -OH 35 ± 3.5 C ₁₀ -OH 46 ± 4 C ₁₂ -OH(+) 1 max.	C ₆ -OH(-) 1 max. C ₈ -OH 43 ± 4 C ₁₀ -OH 55 ± 4 C ₁₂ -OH(+) 1 max.	C ₆ -OH(-) 1 max. C ₈ -OH 62 ± 2 C ₁₀ -OH 38 ± 2 C ₁₂ -OH(+) 1 max.
Color	[APHA]	10 max.	10 max.	10 max.
Hydroxyl number	[mg KOH/g]	400 – 410	382 – 392	390 – 405
Acid number	[wt. %]	–	0.005 max.	*0.005 max.
Iodine number	[mg I ₂ /100 mg]	–	0.1 max.	–
Water content	[wt. %]	0.1 max.	0.1 max.	0.15 max.

Additional properties

Alcohol content	[wt. %]	98.5 min.	98.5 min.	98.5 min.
Melting range	[°C]	-17 – -4	3 – 7	1 – 5
Boiling range	[°C]	177 – 237	204 – 238	204 – 238
Flash point	[°C]	approx. 69	approx. 96	approx. 82
Molecular weight	[g/mol]	137 – 140	143 – 147	139 – 144

	ALFOL 1012 EE	ALFOL 1012 HA	ALFOL 1014 CDC
Chemical description	Alcohol blend C 10-12	Alcohol blend C 10-12	Alcohol blend C 10-14
Appearance at ambient temperature	clear, colorless liquid	clear, colorless liquid	clear, colorless liquid

Sales specification

Alcohol composition	[wt. %]	C ₈ -OH(-) 2.5 max. C ₁₀ -OH 50 ± 5 C ₁₂ -OH 50 ± 5 C ₁₄ -OH(+) 2.5 max.	C ₈ -OH(-) 2 max. C ₁₀ -OH(-) 2 max. C ₁₀ -OH 86 ± 3 C ₁₂ -OH 7 ± 2 C ₁₄ -OH 5 ± 2 C ₁₆ -OH(+) 0.5 max.	C ₈ -OH(-) 1 max. C ₁₀ -OH 30 ± 3 C ₁₂ -OH 38 ± 3 C ₁₄ -OH 31 ± 3 C ₁₆ -OH(+) 2 max.
Color	[APHA]	15 max.	20 max.	30 max.
Hydroxyl number	[mg KOH/g]	–	338 – 350	295 – 309
Saponification no.	[mg KOH/g]	–	1 max.	1 max.
Iodine number	[mg I ₂ /100 mg]	0.25 max.	0.25 max	0.3 max.
Water content	[wt. %]	0.1 max.	0.15 max.	0.15 max.

Additional properties

Alcohol content	[wt. %]	98.5 min.	98.5 min.	98 min.
Melting range	[°C]	1 – 5	2 – 4	5 – 7
Boiling range	[°C]	232 – 263	218 – 274	232 – 285
Flash point	[°C]	approx. 114	approx. 114	approx. 121
Molecular weight	[g/mol]	160 – 167	160 – 166	182 – 190

Other blends are available on request.

	ALFOL 1214	ALFOL 1214 GC	ALFOL 1412
Chemical description	Alcohol blend C 12–14	Alcohol blend C 12–14	Alcohol blend C 12–14
Appearance at ambient temperature	clear, colorless liquid	clear, colorless liquid	clear, colorless liquid

Sales specification

Alcohol composition	[wt. %]	C ₈ -OH (-) 0.5 max. C ₁₀ -OH 1.5 max. C ₁₂ -OH 54 ± 3 C ₁₄ -OH 44 ± 3 C ₁₆ -OH (+) 1.9 max.	C ₁₀ -OH(-) 1.5 max. C ₁₂ -OH 69 ± 3 C ₁₄ -OH 29 ± 3 C ₁₆ -OH(+) 1.9 max.	C ₁₀ -OH (-) 2 max. C ₁₂ -OH 38 ± 4 C ₁₄ -OH 59 ± 4 C ₁₆ -OH (+) 5.4 max.
Color	[APHA]	30 max.	10 max.	25 max.
Hydroxyl number	[mg KOH/g]	274 – 287	280 – 292	271 – 282
Water content	[wt. %]	0.1 max.	0.1 max.	0.15 max.
Iodine number	[mg I ₂ /100 mg]	0.3 max.	0.3 max.	0.3 max.
Saponification no.	[mg KOH/g]	0.7 max.	1 max.	1 max.

Additional properties

Alcohol content	[wt. %]	98 min.	98 min.	98.5 min.
Acid number	[wt. %]	0.1 max.	0.01 max.	0.01 max.
Melting range	[°C]	18 – 25	18 – 25	22 – 24
Boiling range	[°C]	253 – 293	253 – 292	253 – 293
Flash point	[°C]	121 – 130	121 – 130	approx. 132
Molecular weight	[g/mol]	196 – 205	192 – 200	199 – 207

	ALFOL 1216	ALFOL 1216 CO	ALFOL 1218 DCBA
Chemical description	Alcohol blend C 12-16	Alcohol blend C 12-16	Alcohol blend C C 12-18
Appearance at ambient temperature	clear, colorless liquid	clear, colorless liquid	clear, colorless liquid

Sales specification

Alcohol composition	[wt. %]	C ₁₀ -OH(-) 2 max. C ₁₂ -OH 63 ± 3 C ₁₄ -OH 24 ± 3 C ₁₆ -OH(+) 10 ± 2 C ₁₈ -OH(+) 1 max	C ₈ -OH(-) 0.2 max. C ₁₀ -OH 1 max. C ₁₂ -OH 68 ± 3 C ₁₄ -OH 25 ± 3 C ₁₆ -OH 7 ± 3 C ₁₈ -OH(+) 1 max.	C ₁₀ -OH(-) 2 max. C ₁₂ -OH 39 ± 3 C ₁₄ -OH 31 ± 3 C ₁₆ -OH 19 ± 3 C ₁₈ -OH 11 ± 2 C ₂₀ -OH(+) 2.3 max.
Color	[APHA]	30 max.	10 max.	40 max.
Hydroxyl number	[mg KOH/g]	275 – 285	275 – 295	255 – 268
Iodine number	[mg I ₂ /100 mg]	0.5 max.	0.3 max	0.7 max.
Saponification no.	[mg KOH/g]	1 max.	1 max.	1 max.
Water content	[wt. %]	0.1 max.	0.1 max.	0.1 max.

Additional properties

Alcohol content	[wt. %]	98 min.	98 min.	98 min.
Acid number	[wt. %]	<1	0.1 max.	0.1 max.
Melting range	[°C]	17 – 21	17 – 21	20 – 23
Boiling range	[°C]	268 – 311	268 – 311	274 – 349
Flash point	[°C]	approx. 129	approx. 129.4	approx. 135
Molecular weight	[g/mol]	197 – 204	190 – 204	209 – 220

Other blends are available on request.

	ALFOL 1416GC	ALFOL 1418 DDB	ALFOL 1618
Chemical description	Alcohol blend C 14–16	Alcohol blend C 14-18	Alcohol blend C 16-18
Appearance at ambient temperature	white, solid	white, solid	white, solid

Sales specification

Alcohol composition	[wt. %]	C ₁₀ -OH(-) 1 max. C ₁₂ -OH 5.5 ± 2 C ₁₄ -OH 63 ± 3 C ₁₆ -OH 31.5 ± 3 C ₁₈ -OH(+) 1.7 max	C ₁₂ -OH 2.5 max. C ₁₄ -OH 38 ± 3 C ₁₆ -OH 38 ± 3 C ₁₈ -OH 20 ± 2 C ₂₀ -OH 3.7 max.	C ₁₄ -OH(-) 2 max. C ₁₆ -OH 56 ± 5.5 C ₁₈ -OH 37 ± 5.3 C ₂₀ -H(+)5.8 max.
Color	[APHA]	30 max.	–	40 max.
Hydroxyl number	[mg KOH/g]	245 – 260	229 – 242	210 – 223
Iodine number	[mg I ₂ /100 mg]	0.4 max.	–	1.5 max.
Saponification no.	[mg KOH/g]	1 max.	–	1 max.
Water content	[wt. %]	0.1 max.	0.1 max.	0.1 max.

Additional properties

Alcohol content	[wt. %]	97.8 min.	97.8 min.	96.8 min.
Melting range	[°C]	37 – 45	38 – 40	43 – 49
Boiling range	[°C]	305 – 337	310 – 346	331 – 350
Flash point	[°C]	approx. 125	approx. 143	approx. 162
Average MW	[g/mol]	216 – 229	231 – 245	252 – 267

	ALFOL 1618 CG	ALFOL 1618 GC	ALFOL 1620
Chemical description	Alcohol blend C 16-18	Alcohol blend C 16-18	Alcohol blend C 16-12
Appearance at ambient temperature	white, solid	white, solid	white, solid

Sales specification

Alcohol composition	[wt. %]	C ₁₄ -OH(-) 4 max. C ₁₆ -OH 30.5 ± 3.5 C ₁₈ -OH 66.5 ± 3.5 C ₂₀ -OH(+) 3.6 max.	C ₁₄ -OH(-) 4 max. C ₁₆ -OH 66.5 ± 3.5 C ₁₈ -OH 30.5 ± 3.5 C ₂₀ -OH(+) 3.8 max	C ₁₄ -OH(-) 3 max. C ₁₆ -OH 49.6 ± 3 C ₁₈ -OH 32.4 ± 3 C ₂₀ -OH 14.5 ± 2 C ₂₂ -OH(+) 1.7 max
Color	[APHA]	50 max.	60 max.	100 max.
Hydroxyl number	[mg KOH/g]	205 – 218	–	202 – 220
Iodine number	[mg I ₂ /100 mg]	1.5 max.	–	3 max.
Saponification no.	[mg KOH/g]	2 max.	–	2 max.
Water content	[wt. %]	0.2 max.	0.1 max.	0.1 max.

Additional properties

Alcohol content	[wt. %]	97 min.	96.8 min.	95.8 min.
Melting range	[°C]	48 – 53	43 – 49	45 – 54
Boiling range	[°C]	331 – 350	331 – 350	332 – 354
Flash point	[°C]	approx. 162	approx. 162	approx. 171
Average MW	[g/mol]	257 – 274	261 – 274	255 – 278

Other blends are available on request.

	ALFOL 20 +	ALFOL 22 +
Chemical description	Ethene, homo-polymer, oxidized, hydrolyzed, distn. Residues, from C 16–18 alcs. Manuf. 6	Ethene, homo-polymer, oxidized, hydrolyzed, distn. Residues, from C 16–18 alcs. Manuf.
State at ambient temperature	pale yellow, solid	pale yellow, solid

Sales specification

Alcohol composition	[wt. %]	C ₁₈ -OH(-) 8 max. C ₂₀ -OH 42.5 ± 12.5 C ₂₂ -OH 25 ± 10 C ₂₄ -OH 35 ± 4 C ₂₆ -OH(+)13.5±8.5	
Color	[Klett]	1400 max.	1400 max.
Hydroxyl number	[mg KOH/g]	140 – 175	–
Iodine number	[mg I ₂ /100 mg]	25 max.	25 max.
Water content	[wt. %]	0.1 max.	0.1 max.

Additional properties

Alcohol content	[wt. %]	80 min.	70 min.
Melting range	[°C]	45 – 54	approx. 59
Boiling range	[°C]	approx. 343	approx. 372
Flash point	[°C]	approx. 199	approx. 193
Average MW	[g/mol]	approx. 323	approx. 340

Other blends are available on request.



6. Viscosity

Viscosity is a measure of a fluid’s ability to resist flow under gravity. The kinematic viscosity of a fluid is defined as the ratio of absolute or dynamic viscosity to its density.

The viscosity of a fluid is highly temperature dependant. For a liquid the kinematic viscosity will decrease with higher temperature, for a gas the kinematic viscosity will increase with higher temperature.

The temperature dependant kinematic viscosity of **ALFOL** alcohols is shown in Figure 1 and Figure 2.

Figure 1:
ALFOL pure cut alcohol
viscosity vs temperature

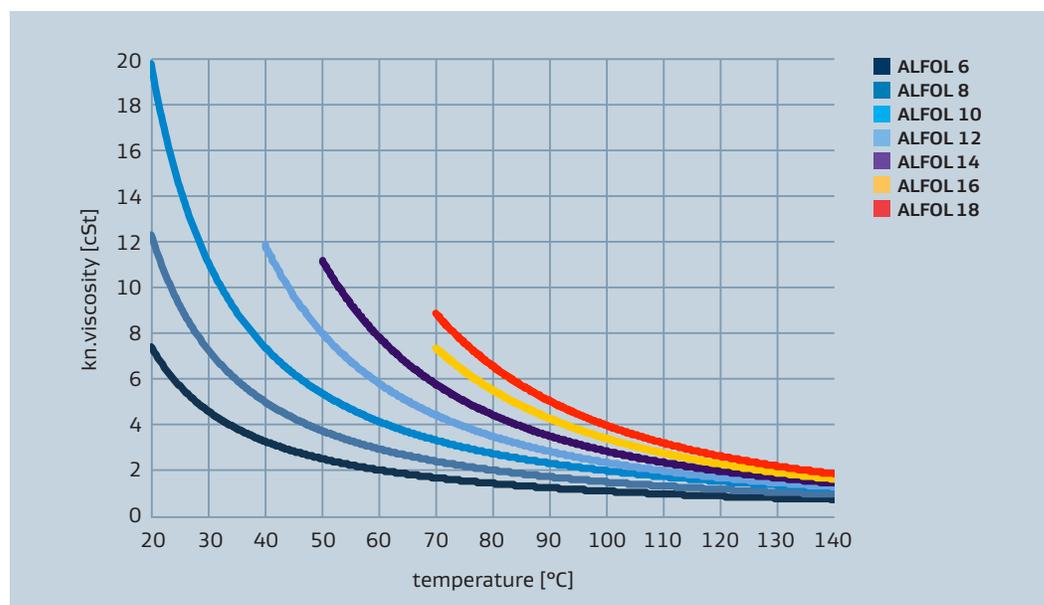
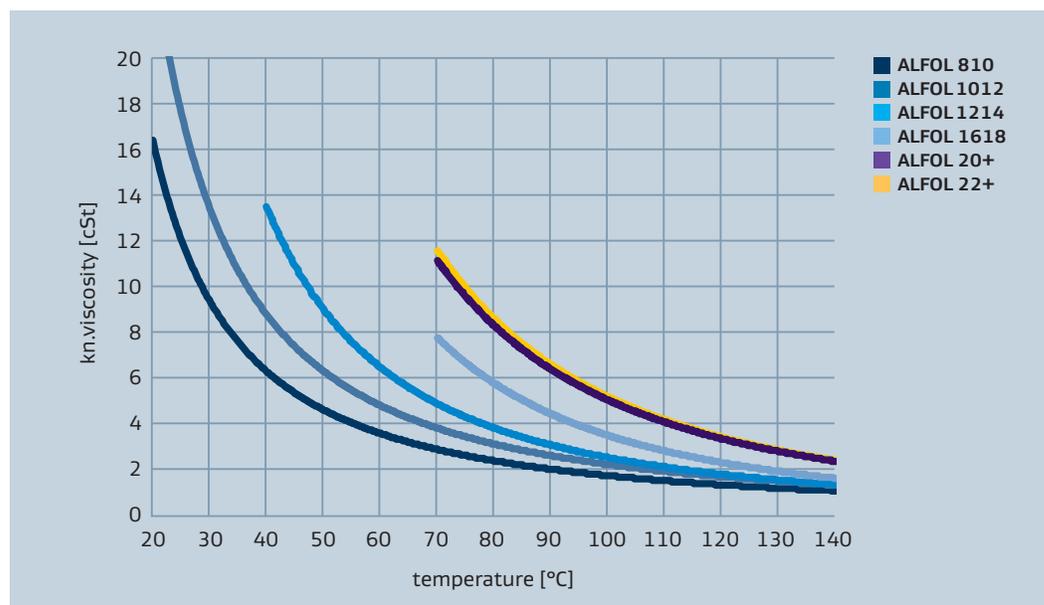


Figure 2:
ALFOL blended alcohol
viscosity vs temperature



7. Density

Density is a measure of how much mass is contained in a given unit volume. The formal definition of density is mass per unit volume. Usually the density is expressed in grams per ml.

In general, density can be changed by changing either the pressure or the temperature. Increasing the pressure will always increase the density of a material. Increasing the temperature generally decreases the density, but there are notable exceptions to this generalisation. The temperature dependant density of **ALFOL** alcohols is shown in Figure 3 and Figure 4.

Figure 3:
ALFOL pure cut alcohol
density vs temperature

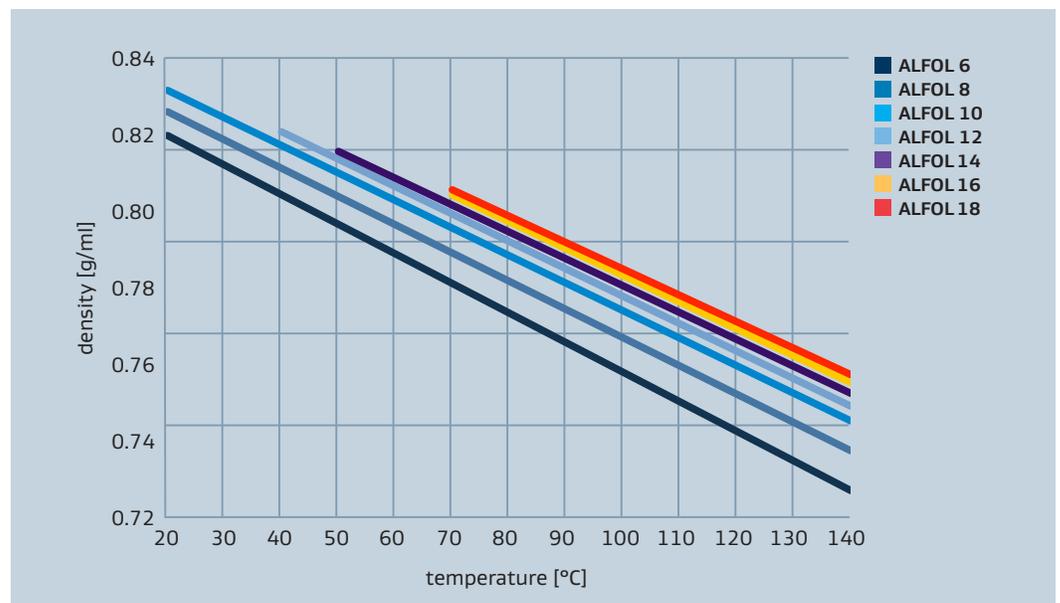
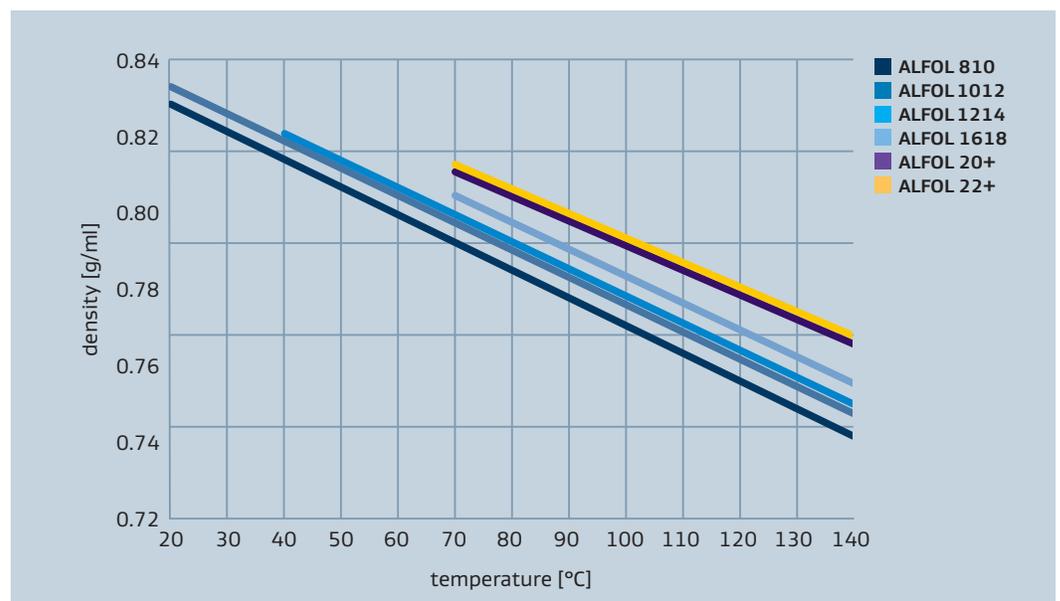


Figure 4:
ALFOL blended alcohol
density vs temperature



8. Analytical Methods

	Sasol Method	with reference to
Acid number	600-303	AOCS Cd 3a-63
Alcohol composition	Various	Gas chromatographic method
Color, APHA	600-310	ASTM D1209
Color, Klett	600-311	internal method
Carbonyl	600-409A	ASTM E411-12
Saponification no.	600-430	AOCS Cd 3-25
Hydroxyl number	Calculated	ASTM E 222-94
Iodine number	600-319	ASTM D460
Water	600-331	ASTM E1064-16
Purity	600-141	Gas chromatographic method



9. Packaging and Delivery

Bulk Loading

All products can be delivered in bulk

- **Road**
27 t per delivery for intermodal transportation
24 t per delivery for conventional road tank vehicles
- **Rail**
25 t per delivery for two-axle tank wagons
55 t per delivery for four-axle tank wagons

Pastillated Products

- Delivery of alcohols with a chain length of C₁₄₊
- Disposable packaging
- Please protect against direct sunlight and environmental influence

1. In polyethylene bags*

- Suitable for foodstuffs
- Filling quantity: 20 kg/bag
- Pallet capacity: 24 bags per CP5 pallet (8 layers of 3 bags each), pallet covered by stretch hood*
- Special packaging upon request

2. In polypropylene "Bigbags"

- Filling quantity: 300 or alternatively 500 kg per "Bigbag"
- Pallet capacity: 1 "Bigbag" per CP3 pallet; pallets covered by stretch hood*
- Please comply with emptying and transportation instructions (see strap)

Filled Products

- Delivery of alcohols with chain lengths of C₆ to C₂₂₊ as well as all liquid products
- Special packaging upon request
- Disposable packaging
- Please protect against direct sunlight and environmental influence

1. In steel drums

- Filling quantity: 160 to 180 kg/drum (depending on product)
- Pallet capacity: 4 drums (screw-cap or screw-lid drums) on a CP3 pallet covered by stretch hood*
- Closed under a nitrogen blanket

2. In Intermediate Bulk Containers (IBCs)

- Capacity of approximately 1 m³
- Pallet capacity: 1 container securely mounted onto a CP1 pallet

* TÜV-Nord certified

10. Handling and Storage

Storage temperature of alcohols C₁₄₊

5 < T < 30 °C
41 < T < 86 °F

Storage temperature of all goods shipped in barrels or drums

5 < T < 30 °C
41 < T < 86 °F

- Plant components that come into contact with the product, e.g. pumps, pipes, tank containers etc. should be made of stainless steel where possible; aluminium plant components are unsuitable; petrol resistant hose connections can be used and should be rinsed thoroughly after use
- In the case of tank storage, inert gas blanketing is required
- Tank heating is required in the case of alcohols exceeding C₁₂; tank temperature should not exceed 25 °C above the setting point of the product; wall temperature of the heating coils should not exceed 100 °C
- In order to prevent overheating of the product at the heating coils, the use of a stirring device in the tank is compulsory



11. Sasol Performance Chemicals Portfolio

Sasol is a major manufacturer of fatty alcohols with the most diverse portfolio of chain lengths and structures. In North America Sasol produces linear alcohols based on ethylene which are sold under our trademark **ALFOL**. These alcohols are available in various purities, as blends and single cuts. Our common single chain length products and their typical properties are shown in the enclosed tables. Further information on pricing or inquire about customized purities or mixtures please contact our customer service.

Linear alcohols with even carbon chain lengths ranging from C₆ to C₂₂ are marketed under Sasol trademarks **ALFOL**, **NACOL**, **NAFOL**. They are manufactured from ethylene as well as via oleo chemical processes. Products with European and Chinese origin carry the name **NACOL** and **NAFOL**.

LIAL Mixture of linear and monobranched alcohols from C ₉ to C ₁₇	Sasol Italy S.p.A. Augusta
ALCHEM Linear alcohol monocuts and blends from C ₉ to C ₁₇	Sasol Italy S.p.A. Augusta
ISALCHEM Monobranched alcohol monocuts and blends from C ₉ to C ₁₇	Sasol Italy S.p.A. Augusta
NACOL Pure cuts of linear alcohols C ₆ to C ₂₂	Sasol Germany GmbH Brunsbüttel
NAFOL Blends of linear alcohols C ₈ to C ₂₈	Sasol Germany GmbH Brunsbüttel
ISOFOL Defined branched Guerbet alcohols C ₁₂ to C ₃₂	Sasol Germany GmbH Brunsbüttel
SAFOL Mixture of linear and branched alcohols C ₁₂ to C ₁₃	Sasol Ltd Secunda
ALFOL Pure cuts and blends of linear Ziegler alcohols C ₆ to C ₂₂	Sasol Chemicals (USA) LLC Lake Charles

12. Registration

For registration status, please refer to the material safety data sheet or contact

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Our Global Footprint

- Sasol Performance Chemicals headquarters
- Sasol Performance Chemicals locations, including sales offices and laboratories



Source reference

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