



SASOL

Linear Alcohols, Single Cuts

for Cosmetics

Sasol Performance Chemicals



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Description

Sasol Germany GmbH manufactures linear, even-numbered, saturated alcohols from petrochemical and oleochemical feedstocks in different, fully independent processes.

The single-cut linear alcohols are marketed under the trademark NACOL.

The highly pure linear alcohols can be used as structurants in the oily phase of cosmetic formulations or as low-HLB crystalline surfactants in Lamellar Gel Network (LGN) based formulations.

Features

- Co-emulsifier
- Viscosity controlling agent
- Emulsion stabilizer
- Feedstock for esters, amines and surfactants

Applications

Single-cut alcohols can be used neat or as derivatives in a wide range of cosmetic formulations for instance

- Hair Care
- Skin Care
- Sun Care
- Colour Cosmetics
- Antiperspirants and Deodorants



Physical Properties

Typical physical properties are listed in the tables below. Actual properties will vary from lot to lot.

Typical properties		NACOL 14-95	NACOL 16-95	NACOL 16-98
INCI name		Myristyl Alcohol	Cetyl Alcohol	Cetyl Alcohol
CAS no.		112-72-1	36653-82-4	112-92-5
Feedstock		ethylene		oleochemical
Appearance @20 °C		colourless, solid		
Molecular weight	g/mol	212 to 219	240 to 244	240 to 242
Purity	wt %	95.0 min.	95.0 min.	98.5 min.
Water content	wt %	0.1 max.	0.1 max.	0.1 max.
Colour	Hazen	10 max.	10 max.	10 max.
Hydroxyl number	mg KOH/g	256 to 262	226 to 235	226 to 235
Acid number	mg KOH/g	0.03 max.	0.05 max.	0.05 max.
Ester number	mg KOH/g	0.2 max.	0.5 max.	0.2 max.
Iodine number	mg I/100g	0.1 max.	0.25 max.	0.25 max.
Solidification point	°C	36 to 38	45 to 49	48 to 50

Sasol is a producer of ingredients for cosmetics and personal care products. Our global manufacturing network along with highly skilled marketing, research and development teams are dedicated to helping you achieve your performance and formulation requirements. Take advantage of Sasol's experience in product development.

Typical properties		NACOL 18-98	NACOL 20-95	NACOL 22-98
INCI name		Stearyl Alcohol	Arachidyl Alcohol	Behenyl Alcohol
CAS no.		112-92-5	629-96-9	661-19-8
Feedstock		oleochemical		
Appearance @20 °C		colourless, solid		
Molecular weight	g/mol	267 to 275	298	326
Purity	wt %	98.0 min.	95.0 min.	98.5 min.
Water content	wt %	0.1 max.	0.1 max.	0.1 max.
Colour	Hazen	10 max.	20 max.	30 max.
Hydroxyl number	mg KOH/g	200 to 210	182 to 192	168 to 174
Acid number	mg KOH/g	0.05 max.	0.05 max.	0.1 max.
Ester number	mg KOH/g	0.1 max.	0.3 max.	0.2 max.
Iodine number	mg I/100g	0.25 max.	1.0 max.	0.5 max.
Solidification point	°C	56 to 59	62 to 66	68 to 71

Packaging:

NACOL 14-95 is available in pellet form and packaged in coated steel drums; 100 kg/drum
 NACOL 16-95 up to NACOL 22-98 are available in pellet form and packaged in polyethylene bags with welded filler tube; 20 kg/bag



Storage:

Protect from moisture and sunlight; keep between 5 and 30 °C

Shelf life:

48 months from the date of manufacture, when properly stored and handled

Certificates (Sasol Germany GmbH):

ISO 14001; ISO 9001; OHSAS 18001, EMAS; Kosher Certificate

NACOL 18-98, NACOL 20-95 and NACOL 22-98 are compliant with **ECOCERT/COSMOS** and can be used in cosmetic formulations certified according to these standards.

Our Global Footprint

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



Sasol's Performance Chemicals business unit markets a broad portfolio of organic and inorganic commodity and speciality chemicals. Our business consists of four key business divisions: Organics, Inorganics, Wax and PCASG (Phenolics, Carbon, Ammonia and Speciality Gases). 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.



SASOL

At Your Service

Sasol Performance Chemicals

Organics Division

Anckelmannsplatz 1, 20537 Hamburg, Germany

info@de.sasol.com Telephone +49 40 63684-1000 Fax +49 40 63684-3700

www.sasol.com

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