



SASOL

Behenyl and C2022 Alcohols

for Cosmetics

Sasol Performance Chemicals



Behenyl and C2022 Alcohols for Cosmetics

Description

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

The alcohol blends are marketed under the trademark **NAFOL**.

The **Behenyl and C2022 Alcohols** are vegetable based and high purity waxy alcohols.

Behenyl and C2022 Alcohols are suitable as gellants, solubilizers or binding agents as well 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

Behenyl and C2022 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
- Antitranspirants and Deodorants



Physical Properties

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

Typical properties		NAFOL 1822 B	NAFOL 1822 C	NAFOL 2022 EN
INCI name		Behenyl Alcohol		C20–22 Alcohol
CAS no.		112-92-5, 629-96-9, 661-19-8		629-96-9, 661-19-8
Feedstock		oleochemical		
Appearance @20 °C		colourless, solid		
Molecular weight	[g/mol]	312 to 320	315 to 321	312 to 325
Homolog distribution	wt %			
C16 OH		1.0 max.	0.5 max.	–
C18 OH		14 to 16	4 to 6	1.0 max.
C20 OH		14 to 16	15 to 19	14 to 20
C22 OH		67 to 71	74 to 78	81 to 85
C24 OH		1.0 max.	1.5 max.	1.0 max.
Water content	wt %	0.1 max.	0.1 max.	0.1 max.
Colour	Hazen	20 max.	20 max.	30 max.
Hydroxyl number	mg KOH/g	175 to 180	173 to 177	170 to 180
Acid number	mg KOH/g	0.05 max.	0.05 max.	0.05 max.
Ester number	mg KOH/g	0.3 max.	0.3 max.	0.3 max.
Iodine number	mg I/100mg	0.5 max.	0.6 max.	1.0 max.
Solidification point	°C	63 to 65	64 to 69	65 to 71

Packaging:

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



Behenyl and C2022 alcohols are compliant with **ECOCERT/COSMOS** and can be used in cosmetic formulations certified according to these standards.

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.

At Your Service



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Sasol Performance Chemicals

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