

Fatty Alcohols for the pharmaceutical industry

Technical Bulletin

Description

Sasol Germany GmbH offers a range of Pharma-grade products that comply with the *European Pharmacopeia (Ph. Eur.)*, the *British Pharmacopeia (BP)* and the *United States Pharmacopeia/National Formulary (USP/NF)*. On this range of products, the specifications and analytical methods according to *Ph. Eur.* will be applied. Analyses according the specifications and methods of *BP* and *USP/NF* can be performed on request. Data like heavy metals, microbiology, aflatoxines, polycyclic aromatic hydrocarbons etc. are additionally available.

Product data (specification) according to *Ph.Eur.* – Linear alcohols

Property	NACOL® 8-99 P	NACOL® 10-99 P	NACOL® 12-99 P	NACOL® 14-98.5 P
INCI Name	Caprylic Alcohol	Decyl Alcohol	Lauryl Alcohol	Myristyl Alcohol
Source	synthetic	synthetic	synthetic	synthetic
Appearance at 20°C	liquid	liquid	liquid	liquid
Relative density	approx. 0.828 (20°C)	-	approx. 0.828 (40°C)	approx. 0.823 (20°C)
Refractive index at 20°C	nD	approx. 1.436	-	-
Melting point	°C	-	24 - 27	38 - 40
Boiling point	°C	approx. 195	approx. 230	-
Assay Caprylic Alcohol	%	min. 99.0	-	-
Assay Decyl Alcohol	%	-	min. 99.0	-
Assay Lauryl Alcohol	%	-	min. 99.0	-
Assay Myristyl Alcohol	%	-	-	min. 98.5

Property	NACOL® 16-98 P	NACOL® 18-98 P	NAFOL® 1618 HP
INCI Name	Cetyl Alcohol	Stearyl Alcohol	Cetearyl Alcohol
Source	vegetable	vegetable	vegetable
Appearance at 20°C	white waxy pastilles	white waxy pastilles	white waxy pastilles
Appearance of solution	conforms	conforms	conforms
Melting point	°C	46 - 52	57 - 60
Acid number	mg KOH/g	max. 1.0	max. 1.0
Saponification number	mg KOH/g	max. 2.0	max. 2.0
Hydroxyl number	mg KOH/g	218 - 238	197 - 217
Iodine number	mg I/100 mg	max. 2.0	max. 2.0
Assay Cetyl Alcohol	%	min. 95.0	-
Assay Stearyl Alcohol	%	-	min. 95.0
Assay Cetearyl Alcohol	%	-	min. 90.0

Product data (specification) according to *Ph.Eur.* – Guerbet alcohols

Property		ISOFOL® 20 P
INCI Name		Octyldodecanol
Source		synthetic
Appearance at 20°C		liquid
Relative Density at 20°C		approx. 0.840
Refractive index at 20°C		approx. 1.455
Acidity or Alkalinity		conforms
Optical rotation		-0.10 to + 0.10
Hydroxyl number	mg KOH/g	175 - 190
Iodine number	mg I/ 100 mg	max. 8.0
Peroxide number	meq O ₂ /kg	max. 5.0
Saponification number	mg KOH/g	max. 5.0
Heavy metals	ppm	max. 10.0
Water	%	max. 0.5
Sulphated ash	%	max. 0.1
Assay Octyldodecanol	%	min. 90.0

Contact information

If you are interested in further information, please contact info@de.sasol.com or the local sales office.

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