



Description

Sasol North America's ALFOL® 18 Alcohol is high purity petrochemical-based 1-octadecanol (also known as stearyl alcohol). ALFOL® 18 Alcohol is a white solid with a slight sweet odor. ALFOL® 18 Alcohol can be esterified, ethoxylated, propoxylated, sulfated, oxidized, etc. ALFOL® 18 Alcohol is classified as rapidly biodegradable in standard ready biodegradability tests.

Sasol's ALFOL® Alcohols are physically and chemically equivalent to corresponding oleochemical-based alcohols derived from such sources as coconut oil or palm oil.

Applications

ALFOL® 18 Alcohol can be used as a high purity feedstock for all of the chemical reactions in which primary alcohols are routinely employed. In addition, ALFOL® 18 Alcohol can be used directly in numerous personal care and technical formulations. Some of Sasol North America's ALFOL® alcohols meet the FDA specification for use in Direct and Indirect Food Contact Applications.

Contact Information

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Properties

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

Typical Properties	ALFOL® 18
Average Molecular Wt.	270
Total Alcohol, wt. %	> 98
Homolog Distribution, wt. %	
C16OH & Lower	< 3.5
C18OH	> 95
C20OH & Higher	< 3
Water, wt. %	< 0.1
Hydroxyl Number, mg KOH/g	200 – 220
Carbonyl, as c=O, ppm	< 700
Acid Number, mg KOH/gm	< 0.5
Iodine Number	< 1
Saponification Number	< 1.5
Color, APHA	< 40
Specific Gravity, g/cc @ 20°C	0.812
Flash Point, °C, (°F)	179 (354)
Melting Point, °C, (°F)	55 – 60 (131 – 140)
Boiling Range, °C, (°F)	350 – 354 (662 – 670)
Viscosity, cSt @ 20°C	11.96
Appearance, room temperature	White solid
Vapor Pressure, mmHg @ 21 °C	< 0.01
Vapor Density, Air = 1	5 – 9
Solubility (water)	Nil.
INCI Name	Stearyl Alcohol

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For detailed safety and handling information regarding these products, please refer to the respective Sasol North America Material Safety Data Sheet.