

ALFOL 16 Alcohol

Technical Data Sheet



SASOL

Description

Sasol Chemicals ALFOL 16 Alcohol is high purity, petrochemical-based 1-hexadecanol. ALFOL 16 Alcohol is a white solid with a slight sweet odor. ALFOL 16 Alcohol is classified as readily biodegradable in standard ready biodegradability tests. ALFOL 16 Alcohol can be esterified, ethoxylated, propoxylated, sulfated, oxidized, etc. Sasol Chemicals ALFOL alcohols are physically and chemically equivalent to corresponding oleochemical-based alcohols derived from such sources as coconut oil or palm oil.

Applications

ALFOL 16 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 16 Alcohol can be used directly in numerous personal care and technical formulations. Some of Sasol Chemicals ALFOL alcohols meet the FDA specification for use in Direct and Indirect Food Contact Applications.

Properties

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

Contact information

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Typical Properties	ALFOL 16
Avg. Molecular Weight, g/mol	242
Total Alcohol, wt. %	98 min.
Homolog Distribution, wt. %	
C14OH & lower	3 max.
C16OH	96 min.
C18OH & higher	3 max.
Water, wt. %	0.1 max.
Hydroxyl Number, mg KOH/g	225 – 235
Carbonyl, as C=O, ppm	300 max.
Acid Number, mg KOH/g	0.1 max.
Iodine Number, mg I ₂ /100 mg	0.5 max.
Saponification Number	0.5 max.
Color, APHA	35 max.
Density, g/mL @ 60°C / 140°F	0.811
Flash Point, °C (°F)	149 (300)
Melting Range, °C (°F)	45 – 49 (113 – 120)
Boiling Range, °C (°F)	330 – 333 (626 – 631)
Viscosity, cSt @ 60°C / 140°F	9.9
Appearance, room temperature	white solid
Vapor Pressure, mmHg @ 20°C	0.01 max.
Vapor Density, Air = 1	5 – 9
Solubility (water)	insoluble
INCI name	Cetyl Alcohol

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