



Description

Sasol North America's ALFOL® 14 Alcohol is high purity petrochemical-based 1-tetradecanol (also known as myristyl or tetradecyl alcohol). ALFOL® 14 Alcohol is a white solid with a sweet pungent odor. ALFOL® 14 Alcohol can be esterified, ethoxylated, propoxylated, sulfated, oxidized, etc. ALFOL® 14 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® 14 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® 14 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® 14
Average Molecular Wt.	214
Total Alcohol, wt. %	> 98
Homolog Distribution, wt. %	
C12OH & Lower	< 2
C14OH	> 95
C16OH & Higher	< 2.6
Water, wt. %	< 0.1
Hydroxyl Number, mg KOH/g	255 – 264
Carbonyl, as c=o, ppm	< 300
Acid Value	< 0.2
Iodine Number	< 0.5
Saponification Number	< 1
Color, APHA	< 20
Specific Gravity, @ 20°C	0.83
Flash Point, °C, (°F)	143 (290)
Melting Range, °C, (°F)	36.6 – 38.8 (98 – 102)
Boiling Range, °C, (°F)	297 – 301 (567 – 573)
Viscosity, cSt @ 38°C	15
Appearance, Room Temperature	White Solid
Vapor Pressure, mmHg @ 21 °C	< 0.1
Vapor Density, Air = 1	5 – 9
Solubility (water)	Nil.
INCI Name	Myristyl 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.