

# ALFOL 12 Alcohol

## Technical Data Sheet



SASOL

### Description

Sasol Chemicals ALFOL 12 Alcohol is high purity, petrochemical-based 1-dodecanol (also known as dodecyl alcohol). ALFOL 12 Alcohol is a white solid with a sweet pungent odor. ALFOL 12 Alcohol is classified as readily biodegradable in standard ready biodegradability tests. ALFOL 12 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 12 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 12 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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Sasol Chemicals offers a wide range of alcohols and surfactants. Please contact us for information about creating your own personalized product.

Typical Properties	ALFOL 12
Avg. Molecular Weight, g/mol	186
Total Alcohol, wt. %	98.5 min.
Homolog Distribution, wt. %	
C10OH & lower	2 max.
C12OH	97.8 min.
C14OH & higher	2 max.
Water, wt. %	0.1 max.
Hydroxyl Number, mg KOH/g	295 – 302
Carbonyl, as C=O, ppm	100 max.
Acid Number, mg KOH/g	0.1 max.
Iodine Number, mg I <sub>2</sub> /100 mg	0.2 max.
Saponification Number	1.0 max.
Color, APHA	15 max.
Density, g/mL @ 40°C / 104°F	0.820
Flash Point, °C (°F)	129 (264)
Melting Range, °C (°F)	23 – 24 (73 – 75)
Boiling Range, °C (°F)	254 – 259 (489 – 498)
Viscosity, cSt @ 40°C / 104°F	11.7
Appearance, room temperature	white solid
Vapor Pressure, mmHg @ 20°C	0.01 max.
Vapor Density, air = 1	6.4
Solubility (water)	insoluble
INCI name	Lauryl Alcohol

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