

ALFOL 1012GB Alcohol



SASOL

Technical Data Sheet

Description

Sasol Chemicals ALFOL 1012GB Alcohol is a blend of high purity petrochemical-based linear primary alcohols. ALFOL 1012GB Alcohol is a clear colorless liquid with a sweet pungent odor. ALFOL 1012GB Alcohol is classified as readily biodegradable in standard ready biodegradability tests. Sasol Chemicals ALFOL Alcohols are physically and chemically equivalent to corresponding oleochemical-based alcohols derived from such sources as coconut oil and palm oil.

Applications

ALFOL 1012GB Alcohol can be used as a high purity feedstock for all of the chemical reactions in which primary alcohols are routinely employed. ALFOL 1012GB Alcohol can be esterified, ethoxylated, propoxylated, sulfated, oxidized, etc. In addition, ALFOL 1012GB Alcohol can be used directly in numerous personal care and technical formulations.

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 1012GB
Avg. Molecular Weight, g/mol	164
Total Alcohol, wt. %	99 min.
Homolog Distribution, wt. %	
C8OH & lower	2 max.
C10OH	70 – 80
C12OH	17 min.
C14OH	1.5 max.
C16OH & higher	0.5 max.
Water, wt. %	0.1 max.
Hydroxyl Number, mg KOH/g	336 – 350
Iodine Number, mg I ₂ /100 mg	0.25 max.
Acid Number, mg KOH/g	0.1 max.
Saponification Number	1 max.
Color, APHA	25 max.
Density, g/mL @ 40°C / 104°F	0.818
Flash point, °C (°F)	114 (237)
Melting Range, °C (°F)	1 – 5 (35 – 40)
Boiling Range, °C (°F)	232 – 263 (450 – 505)
Viscosity, cSt @ 40°C / 104°F	10.0
Appearance, room temperature	clear, colorless liquid
Vapor density, air = 1	5.5 – 6.4
Solubility (water)	insoluble

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