



Technical Data Sheet

Description

Sasol North America Inc.'s MARLIPAL® O13 Alcohol is a high purity, petrochemical-based branched alcohol having an average carbon chain length of 13. MARLIPAL® O13 Alcohol is based on a C12-olefin, which is prepared by the trimerization of *n*-butene. The hydroformylation (oxo synthesis) of the olefin with carbon monoxide and hydrogen produces an isomeric mixture of primary isotridecyl alcohols with a branched alkyl chain. MARLIPAL® O13 Alcohol does not contain alcohols with carbon chain lengths of 11 or 12.

In contrast to an isotridecyl alcohol based on propylene, MARLIPAL® O13 Alcohol and its derivatives have a unique, significantly milder odor which enhances their product quality.

MARLIPAL® O13 Alcohol and its derivatives display better wetting, flow, and liquidity properties than similar molecular weight linear alcohols.

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	MARLIPAL® O13
Alcohol Content, wt. %	> 99
Color, APHA	< 5
Molecular weight	~200
Water, wt. %	< 0.1
Hydroxyl number, mg KOH/g	270 – 290
Acid number, mg KOH/g	< 0.1
Saponification number, mg KOH/g	< 0.3
Carbonyl, as C=O, ppm	< 50
Density, g/cc @ 20°C	0.8438
Solidification point, °C, (°F)	-25 (-13)
Flash point, °C, (°F)	123 (253)
Ignition Temperature, °C, (°F)	265 (509)
Boiling Range, °C, (°F)	250 – 270 (482 – 518)
Solubility in water, g/l	< 0.1
Vapor Pressure, hPa @ 20°C	0.01
Viscosity, cSt @ 20°C	43.212
Appearance, 20°C	Clear liquid

MARLIPAL is a registered trademark of Sasol Germany, GmbH

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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.

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