

ALFONIC® 1412-9 Ethoxylate

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Technical Data Sheet

Description

Sasol North America Inc.'s ALFONIC® 1412-9 Alcohol Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL® 1412-9 Alcohol. It is essentially 100% active and has the following structural formula: $CH_3(CH_2)_xCH_2(OCH_2CH_2)_{10}OH$ where 'x' varies between 10 and 12

ALFONIC® 1412-9 Ethoxylate is a clear to slightly hazy liquid. Because it is a low-mole ethoxylate, it is sparingly soluble in water but soluble in hydrocarbons.

Applications

ALFONIC® 1412-9 Ethoxylate can be used in a wide variety of applications. It can be used as a high quality, biodegradable emulsifier, detergent, and in industrial and institutional cleaning products. It can also be used in industrial applications such as textile and leather processing, plastic additives, pulp and paper processing, metal cleaners and agricultural adjuvant.

Properties

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

Contact Information

For technical information or samples:

Sasol North America

Product Steward
2201 Old Spanish Trail
Westlake, Louisiana 70669
Telephone: (337)494-4133
Fax: (281)368-0819

TDS.ProductSteward@us.sasol.com

For sales and pricing information contact a sales representative at:

Sasol North America

900 Threadneedle
Houston, TX 77079-2990
Telephone: (281)588-3000
Fax: (281)368-1531:

info@us.sasol.com

Typical Properties	ALFONIC® 1412-9
Average Molecular Wt.	601
Color, APHA	<50
Hydroxyl Number, mg KOH/g	86 - 98
Water, Wt %	0.1
Glycol, Wt %	<3
Free Alcohol, wt%	<2
Density, g/mL @ 40°C	0.9858
Flash Point °C (°F)	171 (339.8)
Cloud Point 1% in Water, °C (°F)	69 - 85 (156 - 185)
Pour Point °C	22
Melting Range, °C (°F)	20-25 (68 - 77)
Boiling Point, °C (°F)	174-331(346-628)
Viscosity, cSt @ 40°C	35.11
Appearance, 25°C	White solid
pH, 5% in IPA/Water	6 - 7.5
Avg. EO Content, moles	9
Avg. EO Content, Wt. %	66
Free EO, PPM	< 1
Solubility in Water, g/L	soluble
HLB, calculated	13.2

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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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