

# ALFONIC® 1412-7 Ethoxylate

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## Technical Data Sheet

### Description

Sasol North America Inc.'s ALFONIC® 1412-7 Alcohol Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL® 1412-7 Alcohol. It is essentially 100% active and has the following structural formula:  $\text{CH}_3(\text{CH}_2)_x\text{CH}_2(\text{OCH}_2\text{CH}_2)_7\text{OH}$  where 'x' varies between 10 and 12

ALFONIC® 1412-7 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® 1412-7 Ethoxylate can be used in a wide variety of applications. It can be used as a high quality, biodegradable emulsifier, foaming agent, and/or cleaner in a wide variety of household, as well as, industrial cleaning products. It can also be used in such industrial applications as textile and leather processing, plastics additives, pulp and paper processing, metal cleaners, car wash products, agricultural adjuvants, and circuit board cleaners.

### 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](mailto: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](mailto:info@us.sasol.com)

Typical Properties	ALFONIC® 1412-7
Average Molecular Wt.	513
Color, APHA	<50
Hydroxyl Number, mg KOH/g	97 - 117
Water, Wt %	<0.1
Glycol, Wt %	<3
Free Alcohol, wt%	<5
Density, g/mL @ 20°C	0.9524
Flash Point °C (°F)	166 (330.8)
Cloud Point 1% in Water, °C (°F)	47-57 (129.02)
Pour Point °C	20
Melting Range, °C (°F)	19-25 (66.2-77)
Boiling Point, °C (°F)	>148 (298)
Viscosity, cSt @ 40°C	9.5962
Appearance, 25°C	Cloudy/hazy liquid
pH, 5% in IPA/Water	6 – 7.5
Vapor Pressure, mmHg @ 98°C	0.16
Avg. EO Content, moles	7
Avg. EO Content, Wt. %	60
Free EO, PPM	< 1
Solubility in Water, g/L	Yes
HLB, calculated	12

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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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