

ALFONIC® 1012-5 Ethoxylate

Technical Data Sheet

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Description

Sasol North America Inc.'s ALFONIC® 1012-5 Alcohol Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL® 1012 Alcohol. It is essentially 100% active and has the following structural formula: $CH_3(CH_2)_xCH_2(OCH_2CH_2)_5OH$ where 'x' varies between 8 and 10

ALFONIC® 1012-5 Ethoxylate is a clear to slightly hazy liquid. Because of its degree of ethoxylation, it is soluble in polar solvents such as water, ethanol, isopropanol and glycol ethers.

Applications

ALFONIC® 1012-5 Ethoxylate can be used in a wide variety of applications. It can be used as a high quality biodegradable emulsifier 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, paints and coatings, pulp and paper processing, metal cleaners, car wash products, agricultural adjuvant, 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

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Typical Properties	ALFONIC® 1012-5
Average Molecular Wt.	384 - 410
Color, APHA	< 50
Hydroxyl Number	140 – 148
Water, Wt %	< 0.1
Glycol, Wt %	< 2
Free Alcohol, wt%	<6
Density, g/mL @ 20°C	0.9627
Flash Point °C (°F)	143 (290)
Cloud Point, BDG, °C (°F)	73 (163)
Melting Range, °C (°F)	3 – 4 (37 – 40)
Boiling Range, °C (°F)	156 – 312 (314 – 594)
Viscosity, cSt @ 40°C	10.51
pH, 5% in IPA/Water	6 – 8
Vapor Pressure, mmHg @ 38°C	0.19
Vapor Density, Air = 1	13 – 15
Avg. EO Content, moles	5
Avg. EO Content, Wt. %	57.4
Free EO, PPM	< 1
Solubility in Water, g/L	Miscible
HLB, calculated	11.5

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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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