

ALFONIC® TDA-3 Ethoxylate

Technical Data Sheet

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Description

Sasol North America Inc.'s ALFONIC® TDA-3 Alcohol Ethoxylate is a biodegradable nonionic surfactant. ALFONIC® TDA-3 Ethoxylate is derived from a 100% branched tridecyl (C13) alcohol and ethoxylated to an average of three (3) moles. It is essentially 100% active unless diluted with water.

ALFONIC® TDA-3 Ethoxylate is a clear, colorless liquid. Because it is a low-mole ethoxylate, it is sparingly soluble in water but soluble in hydrocarbons.

Applications

ALFONIC® TDA-3 Ethoxylate can be used in a wide variety of applications. ALFONIC® TDA-3 Ethoxylate can be used "as is" in a wide range of applications including emulsifiers, industrial and institutional cleaners, agricultural chemicals, textile and leather processing, and metalworking systems. ALFONIC® TDA-3 Ethoxylate can be used as a feedstock to make alcohol ether sulfates, ether carboxylates, as well as phosphate esters.

Properties

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

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Typical Properties	ALFONIC® TDA-3
Average Molecular Wt.	334
Color, APHA	< 50
Hydroxyl Number	168 - 176
Water, Wt %	< 0.1
Glycol, Wt %	< 2.0
Free Alcohol, wt%	< 22
Density, g/mL @ 20°C	0.9017
Flash Point °C (°F)	136 (276.8)
Cloud Point °C (°F), BDG	43 - 49
Melting Range, °C (°F)	-11 (12)
Boiling Point, °C (°F)	>200 (392)
Viscosity, cSt @ 40°C	7.22
pH, 5% in IPA/Water	6 - 8
Vapor Density, Air = 1	~11
Avg. EO Content, moles	3
Avg. EO Content, Wt. %	39
Free EO, PPM	< 1
Solubility in Water, g/L	slightly
HLB, calculated	7.8

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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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