

ALFONIC® TDA-6 Ethoxylate

Technical Data Sheet

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Description

Sasol North America Inc.'s ALFONIC® TDA-6 Alcohol Ethoxylate is a biodegradable nonionic surfactant derived from Isotridecyl Alcohol. It is then ethoxylated to an average of six moles of ethylene oxide. This ethoxylate is essentially 100% active unless diluted with water.

ALFONIC® TDA-6 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-6 Ethoxylate can be used in a wide variety of applications. It can be used as a high quality, biodegradable emulsifier and also in industrial and institutional cleaning products. ALFONIC® TDA-6 Ethoxylate can be used in such industrial application as textile and leather processing, plastic additives, pulp and paper processing, metal cleaning, and agricultural adjuvants.

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-6
Average Molecular Wt.	466
Color, APHA	< 50
Hydroxyl Number	122 - 128
Water, Wt %	< 0.1
Glycol, Wt %	< 2.0
Free Alcohol, wt%	9.1
Density, g/mL @ 40°C	0.9695
Flash Point °C (°F)	152 (305.6)
Cloud Point °C (°F), BDG	70
Melting Range, °C (°F)	9-18 (48.2– 64.4)
Boiling Point, °C (°F)	>250 (482)
Viscosity, cSt @ 40°C	19.977
pH, 5% in IPA/Water	6 - 8
Vapor Pressure, mmHg @ 60°C	<1
Vapor Density, Air = 1	~15
Avg. EO Content, moles	6
Avg. EO Content, Wt. %	56
Free EO, PPM	< 1
Solubility in Water, g/L	Yes
HLB, calculated	11.2

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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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