

ALFONIC TDA-6 Ethoxylate



SASOL

Technical Data Sheet

Description

Sasol Chemicals ALFONIC TDA-6 Alcohol Ethoxylate is a biodegradable nonionic derived from isotridecyl alcohol and ethoxylated to an average of six moles of ethylene oxide. ALFONIC TDA-6 is liquid at room temperature and essentially 100% active unless diluted with water.

The narrow range version of this ethoxylate made using Sasol Chemicals patented NOVEL catalyst technology is also available.

Applications

ALFONIC TDA-6 Ethoxylate may be used in a wide array of applications including as a high quality, biodegradable emulsifier and/or cleaner in a variety of household and industrial cleaning products. It may also be used in such industrial applications 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.

Contact information

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Typical properties	ALFONIC TDA-6
Avg. molecular weight, g/mol	466
Avg. EO content, wt. %	56
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	122 – 128
Water, wt. %	0.1 max.
Glycol, wt. %	2.0 max.
Free alcohol, wt. %	10 max.
Density, g/mL @ 40°C / 104°F	0.970
Flash point, °C (°F)	--
Cloud point, 10% in BDG, °C (°F)	69 (156)
Pour Point, °C (°F)	--
Viscosity, cSt @ 40°C / 104°F	--
pH, 5% in IPA/water	6 – 8
Color, APHA, mg Pt/L	50 max.
HLB, calculated	11.2
Wettability on cotton, seconds	37
Critical Micelle Concentration, mg/L	26.4
SFT, mN/m	27.5
Avg. Contact Angle on PTFE	34.42
Solubility in water, 2 wt. %	Soluble

**Mix samples well before use.*

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