

ALFONIC TDA-3 Ethoxylate

Technical Data Sheet



SASOL

Description

Sasol Chemicals ALFONIC TDA-3 Ethoxylate is a biodegradable nonionic derived from isotridecyl alcohol and ethoxylated to an average of three mole of ethylene oxide. ALFONIC TDA-3 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-3 Ethoxylate may be used in a wide array of applications including industrial and institutional cleaners, emulsifiers, agricultural chemicals, textile and leather processing and metalworking systems. It may also be used as a feedstock to make alcohol ether sulfates, ether carboxylates and phosphate esters.

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-3
Avg. molecular weight, g/mol	334
Avg. EO content, wt. %	39.6
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	168 – 176
Water, wt. %	0.1 max.
Glycol, wt. %	2.0 max.
Free alcohol, wt. %	22 max.
Density, g/mL @ 40°C / 104°F	--
Flash point, °C (°F)	> 135 (275)
Cloud point, 10% in BDG, °C (°F)	46 (114.8)
Pour point, °C (°F)	-6 (21)
Viscosity, cSt @ 40°C / 104°F	18.75
pH, 5% in IPA/water	6 – 8
Color, APHA, mg Pt/L	50 max.
HLB, calculated	7.92
Wettability on cotton, seconds	77
Critical Micelle Concentration, mg/L	46.86
SFT, mN/m	27.5
Avg. Contact Angle on PTFE	33.68
Solubility in water, 2 wt. %	Soluble

**Mix samples well before use.*

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