

# ALFONIC TDA-3 Ethoxylate



SASOL

## Technical Data Sheet

### 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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