

# NOVEL TDA-12 Ethoxylate

## Technical Data Sheet



**sasol**

### Description

Sasol Chemicals NOVEL TDA-12 Ethoxylate is a biodegradable nonionic derived from isotridecyl alcohol and ethoxylated to an average of twelve moles of ethylene oxide. This ethoxylate is made using Sasol Chemicals patented NOVEL technology which yields narrow range products with lower free alcohol, PEG levels and melting ranges when compared to the traditional base-catalyzed methods. NOVEL TDA-12 Ethoxylate is liquid at room temperature and essentially 100% active.

### Applications

NOVEL TDA-12 Ethoxylate may be used in a wide array of applications including as a high quality, biodegradable emulsifier and in industrial and institutional cleaning products. It may also be used in industrial applications such as textile and leather processing, plastic additives, pulp and paper processing, metal cleaners and agricultural adjuvants.

### Properties

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

### Contact information

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Typical properties	NOVEL TDA-12
Avg. molecular weight, g/mol	731
Avg. EO content, wt. %	72
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	72 – 82
Water, wt. %	0.5 max.
Glycol, wt. %	2.0 max.
Free alcohol, wt. %	1 max.
Density, g/mL @ 40°C / 104°F	1.01
Flash point, °C (°F)	188 (370)
Cloud point, 1% in saltwater, °C (°F)	--
Pour Point, °C (°F)	--
Viscosity, cSt @ 40°C / 104°F	46
pH, 1% in IPA/water	6 – 8
Color, APHA, mg Pt/L	50 max.
HLB, calculated	14.5
Wettability on cotton, seconds	44
Critical Micelle Concentration, mg/L	105.23
SFT, mN/m	29.7
Avg. Contact Angle on PTFE	57.63
Solubility in Water, 2 wt. %	Soluble

*\*Mix samples well before use.*

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11/17/2020

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