

NOVEL TDA-100 Ethoxylate



Technical Data Sheet

SASOL

Description

Sasol Chemicals NOVEL TDA-100 Ethoxylate is a biodegradable nonionic derived from isotridecyl alcohol and ethoxylated to an average of 100 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-100 Ethoxylate is solid at room temperature and essentially 100% active.

Applications

NOVEL TDA-100 Ethoxylate may be used as a high quality, biodegradable emulsifier in a wide array of applications including detergents, oilfield, personal care, as well as in coatings and inks (i.e. emulsion polymerization).

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	NOVEL TDA-100
Avg. molecular weight, g/mol	4603
Avg. EO content, wt. %	95.6
Free EO, ppm	2 max.
Hydroxyl number, mg KOH/g	7 – 17
Water, wt. %	0.1 max.
Glycol, wt. %	0.5 max.
Free alcohol, wt. %	0.5 max.
Density, g/mL @ 70°C / 158°F	1.066
Flash point, °C (°F)	--
Cloud range, 1% in salt water, °C(°F)	70 (158)
Melting range, °C (°F)	55 – 58 (131 – 136)
Viscosity, cSt @ 70°C / 158°F	305
pH, 1% in IPA/water	6 – 8
Color, APHA, mg Pt/L	150 max.
HLB, calculated	19.12
Wettability on cotton, seconds	--
Critical Micelle Concentration, mg/L	--
SFT, mN/m	46
Avg. Contact Angle on PTFE	--
Solubility in Water, 2 wt. %	Soluble

**Mix samples well before use.*

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