

# NOVEL 18-20 Ethoxylate



SASOL

## Technical Data Sheet

### Description

Sasol Chemicals NOVEL 18-20 Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL 18 Alcohol. This 20-mole 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 18-20 Ethoxylate is solid at room temperature, essentially 100% active and has the following structural formula:  $\text{CH}_3(\text{CH}_2)_{17}(\text{OCH}_2\text{CH}_2)_{20}\text{OH}$ .

### Applications

NOVEL 18-20 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, plastics additives, paints and coatings, pulp and paper processing, metal cleaners, car wash products, agricultural adjuvants and circuit board cleaners.

### 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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### Don't see what you are looking for?

Sasol Chemicals offers a wide range of alcohols and surfactants. Please contact us for information about creating your own personalized product.

Typical properties	NOVEL 18-20
Avg. molecular weight, g/mol	1150
Avg. EO content, wt. %	76.5
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	43 - 53
Water, wt. %	0.5 max.
Glycol, wt. %	1 max.
Free alcohol, wt. %	1 max.
Density, g/mL @ 70°C / 158°F	1.005
Flash point, °C (°F)	> 200 (392)
Cloud point, 10% in BDG, °C (°F)	--
Melting range, °C (°F)	46 - 48 (115 - 118)
Viscosity, cSt @ 70°C / 158°F	38.4
pH, 1% in IPA/water	5 - 8
Color, APHA, mg Pt/L	150 max.
HLB, calculated	15.3
Wettability on cotton, seconds	> 300
Critical Micelle Concentration, mg/L	7.2
SFT, mN/m	42.6
Avg. Contact Angle on PTFE	75.32
Solubility in water, 2 wt. %	Soluble

*\*Mix samples well before use.*

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