

# NOVEL® 18-20 Ethoxylate

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## Technical Data Sheet

### Description

Sasol North America Inc.'s NOVEL® 18-20 Ethoxylate is a biodegradable, nonionic surfactant derived from linear, primary ALFOL® 18 Alcohol. This 20 mole ethoxylate is made using Sasol North America Inc.'s patented NOVEL® technology. This yields narrow range or "peaked" ethoxylates that have lower free alcohol, PEG levels, and melting ranges when compared to the traditional base-catalyzed ethoxylates. NOVEL® 18-20 Ethoxylate is a white solid that is readily soluble in water.

It is essentially 100% active and has the following structural formula:



### Applications

NOVEL® 18-20 Ethoxylate can be used in a wide variety of applications. It can be used as a high quality, biodegradable emulsifier and/or cleaner in a wide variety of household, as well as, industrial cleaning products. It can 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 may vary from lot to lot.

### Contact Information

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| Typical Properties         | NOVEL® 18-20        |
|----------------------------|---------------------|
| Average Molecular Wt.      | 1150                |
| Color, APHA                | < 150               |
| Hydroxyl Number            | 43 to 53            |
| Water, Wt %                | < 0.5               |
| Glycol, Wt %               | < 1                 |
| Free Alcohol, wt%          | < 1                 |
| Density, g/mL @ 40°C       | 0.9906 - 0.9999     |
| Flash Point (PM), °C (°F)  | >204 (>400)         |
| Melting Range, °C (°F)     | 46 - 48 (115 - 118) |
| Boiling Range, °C (°F)     | 116 (240)           |
| Viscosity, cSt @ 40°C      | 25.672 – 33.026     |
| pH, 1% in IPA / Water      | 5 – 8               |
| Vapor Pressure, psi @ 65°C | <0.1                |
| Vapor Density              | 33-40               |
| Avg. EO Content, moles     | 20                  |
| Avg. EO Content, Wt. %     | 76.5                |
| Free EO, PPM               | < 1                 |
| HLB, calculated            | 15.3                |

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For detailed safety and handling information regarding these products, please refer to the respective Sasol North America Material Safety Data Sheet.

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