

# NOVEL® 810-3.5 Ethoxylate

## Technical Data Sheet

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### Description

Sasol North America Inc.'s NOVEL® 810-3.5 Alcohol Ethoxylate is a biodegradable, nonionic surfactant derived from linear primary ALFOL® 810 Alcohol. This ethoxylate is made using Sasol North America Inc.'s patented NOVEL® catalyst technology, which yields products with lower free alcohol and PEG levels when compared to the traditional base-catalyzed methods. It is essentially 100% active and has the following structural formula:  $CH_3(CH_2)_x(OCH_2CH_2)_{3.5}OH$  where 'x' varies between 7 and 9.

### Applications

NOVEL® 810-3.5 Ethoxylate can be used in a wide variety of applications including the following:

- Sulfation feedstock used as a foaming agent in wallboard/sheetrock for commercial and residential construction
- Oilfield applications
- Hard surface cleaning applications

### Properties

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

### Contact Information

For technical information or samples:

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Typical Properties	NOVEL® 810-3.5
Average Molecular Wt.	298
Color, APHA	< 50
Hydroxyl Number	182 -192
Water, Wt %	< 0.1
Glycol, Wt %	< 1.5
Free Alcohol, Wt %	< 5
Appearance	Clear to Hazy Liquid
Density, g/mL @ 20°C	0.9559
Flash Point, °C (°F)	~114 (237)
Cloud Point, 10% in 25% butyldiglycol solution, °C (°F)	64 (147)
Melting Range, °C (°F)	-9.9 (14.2)
Viscosity, cSt @ 40°C	10.5
pH, 1% in IPA/water	6.5 – 8.5
Vapor Density, Air = 1	10.3
Avg. EO Content, moles	3.5
Avg. EO Content, Wt %	51.6
Free EO, ppm	< 1
HLB, calculated	10.3

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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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