

NOVEL® 810FD-6 Ethoxylate

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Technical Data Sheet

Description

Sasol North America Inc.'s NOVEL® 810FD-6 Alcohol Ethoxylate is a biodegradable, nonionic surfactant derived from linear primary ALFOL® 810FD Alcohol. It is essentially 100% active and has the following structural formula: $\text{CH}_3(\text{CH}_2)_x(\text{OCH}_2\text{CH}_2)_6\text{OH}$ where 'x' varies between 7 and 9.

NOVEL® 810FD-6 Ethoxylate is a clear to slightly hazy liquid. It is made using Sasol North America's patented narrow range catalyst technology. NOVEL® based ethoxylates typically contain less free alcohol and polyethylene glycol when compared with the KOH based version.

Applications

NOVEL® 810FD-6 Ethoxylate can be used in a wide variety of applications including the following:

- Agricultural formulations
- Industrial cleaning
- Oilfield applications

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® 810FD-6
Average Molecular Weight	409
Color, APHA	< 50
Hydroxyl Number	134 – 144
Water, Wt %	< 0.1
Glycol, Wt %	< 1.5
Free Alcohol, Wt %	<1
Density, g/mL @ 20°C	0.996
Flash Point Range, °C (°F)	143–153 (289–307)
Cloud Point, 1% in H ₂ O, °C	70(158)
Melting Point Range, °C	-6.0 – -0.9
Viscosity, cSt @ 40°C	16.513
pH, 1% in IPA/water	6 – 8
Vapor Density, Air = 1	14 – 16
Avg. EO Content, moles	6
Avg. EO Content, Wt %	65
Free EO, ppm	< 1
Solubility in Water	Soluble
HLB, calculated	13

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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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