

NOVEL® 810FD-7 Ethoxylate

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reaching new frontiers



Technical Data Sheet

Description

Sasol North America Inc.'s NOVEL® 810FD-7 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: $CH_3(CH_2)_x(OCH_2CH_2)_7OH$ where 'x' varies between 7 and 9

NOVEL® 810FD-7 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-7 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-7
Average Molecular Wt.	455
Color, APHA	< 50
Hydroxyl Number	118 – 130
Water, Wt %	< 0.1
Glycol, Wt %	< 1.5
Free Alcohol, Wt %	< 0.5
Density, g/mL @ 20°C	1.007
Flash Point, °C (°F)	160 (320)
Cloud Point, 1% in H ₂ O, °C (°F)	79 (174)
Melting Range, °C (°F)	-3 – 7 (26 – 45)
VOC, wt%	0.05
Viscosity, cSt @ 40°C	19.6
pH, 1% in IPA/water	6 – 8
Vapor Pressure, mmHg @ 21°C	< 1
Vapor Density, Air = 1	14 – 16
Avg. EO Content, moles	7
Avg. EO Content, Wt %	68
Free EO, ppm	< 1
Solubility in Water	Soluble
HLB, calculated	13.6

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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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