

ALFONIC® 610-3.5 Ethoxylate

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Technical Data Sheet

Description

Sasol North America Inc.'s ALFONIC® 610-3.5 Alcohol Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL® 610 Alcohol. 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 5 and 9

ALFONIC® 610-3.5 Ethoxylate is a clear, colorless liquid. Because of its degree of ethoxylation, it is soluble in polar solvents such as water, ethanol, isopropanol and glycol ethers.

Applications

ALFONIC® 610-3.5 Ethoxylate is particularly well suited for hard-surface cleaning applications, herbicide and fabric cleaning formulations. ALFONIC® 610-3.5 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
- Co-surfactant for enhanced oil recovery.

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	ALFONIC® 610-3.5
Average Molecular Weight	259 – 285
Color, APHA	< 50
Hydroxyl Number	197 – 217
Water, Wt %	< 0.1
Glycol, Wt %	< 2
Free Alcohol, Wt %	4 – 10
Density, g/mL @ 40°C	0.940
Flash Point °C (°F)	114 (238)
Cloud Point °C (°F)	72.7 (163)
Melting Range, °C (°F)	-12 – -8 (10 – 18)
Viscosity, cSt @ 40°C	11.32
pH, 5% in water	6 – 7
Vapor Pressure, mmHg @ 38°C	0.16
Vapor Density, Air = 1	8 – 10
Avg. EO Content, moles	3.5
Avg. EO Content, Wt %	52
Free EO, PPM	< 1
Solubility in Water, g/L	20
HLB, calculated	10.4

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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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