

ALFONIC® 610-1.5 Ethoxylate

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Technical Data Sheet

Description

Sasol North America Inc.'s ALFONIC® 610-1.5 Alcohol Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL® 610 Alcohol. It is essentially 100% active and has the following structural formula: $\text{CH}_3(\text{CH}_2)_x(\text{OCH}_2\text{CH}_2)_{1.5}\text{OH}$ where 'x' varies between 5 and 9.

ALFONIC® 610-1.5 Ethoxylate is a clear, colorless liquid. Because it is a low-mole ethoxylate, it is sparingly soluble in water but soluble in hydrocarbons.

Applications

ALFONIC® 610-1.5 Ethoxylate is particularly well suited for hard-surface cleaning applications, herbicide and fabric cleaning formulations. ALFONIC® 610-1.5 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® 610-1.5 |
|-----------------------------|--------------------|
| Average Molecular Wt. | 206 |
| Color, APHA | <50 |
| Hydroxyl Number | 275 – 288 |
| Water, Wt % | < 0.1 |
| Glycol, Wt % | < 2 |
| Free Alcohol, wt% | <25 |
| Density, g/mL @ 16°C | 0.905 |
| Flash Point °C (°F) | 99 (210) |
| Cloud Point °C (°F) | 45(113) |
| Melting Range, °C (°F) | -15 – -12 (5 – 10) |
| Boiling Point, °C (°F) | 109 (228) |
| Viscosity, cSt @ 38°C | 8.5 |
| pH, 5% in water | 6 – 7 |
| Vapor Pressure, mmHg @ 38°C | 8 |
| Vapor Density, Air = 1 | 5 – 8 |
| Avg. EO Content, moles | 1.5 |
| Avg. EO Content, Wt. % | 32 |
| Free EO, PPM | < 1 |
| Solubility in Water, g/L | 2 |
| HLB, calculated | 6.4 |

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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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