

ALFONIC® 10-8 Ethoxylate

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Technical Data Sheet

Description

Sasol North America Inc.'s ALFONIC® 10-8 Alcohol Ethoxylate is a biodegradable, nonionic surfactant derived from linear primary ALFOL® 10 Alcohol. It is essentially 100% active and has the following structural formula: $CH_3(CH_2)_x(OCH_2CH_2)_8OH$ where 'x' is 9. ALFONIC® 10-8 Ethoxylate is a clear to slightly hazy liquid and is soluble in water.

The narrow range version of this ethoxylate, or NOVEL® 10-8 is also available. 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

ALFONIC® 10-8 Ethoxylate can be used in a wide variety of applications including the following: Hard surface cleaner, detergent, industrial and institutional cleaning, personal care and as a surfactant.

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® 10-8
Average Molecular Weight	482 - 513
Color, APHA	< 100
Hydroxyl Number	105 – 115
Water, Wt %	< 0.5
Glycol, Wt %	< 2
Free Alcohol, Wt %	< 2
Density, g/mL @ 20°C	1.014
Flash Point, °C (°F)	204 (>400)
Cloud Point, 1% in H ₂ O, °C (°F)	77 - 86 (171 - 187)
Melting Point, °C (°F)	8 – 19 (46 – 66)
Viscosity, cSt @ 40°C	28
pH, 5% in IPA/water	5 – 7
Avg. EO Content, moles	8
Avg. EO Content, Wt %	69
Free EO, ppm	< 1
Solubility, 2% in Water	Soluble
HLB, calculated	13.8

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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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