

ALFONIC 810-2 Ethoxylate



SASOL

Technical Data Sheet

Description

Sasol Chemicals ALFONIC 810-2 Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL 810 Alcohol. ALFONIC 810-2 Ethoxylate is liquid at room temperature, essentially 100% active and has the following structural formula: $\text{CH}_3(\text{CH}_2)_x(\text{OCH}_2\text{CH}_2)_2\text{OH}$ where 'x' varies between 7 and 9.

The narrow range version of this ethoxylate, NOVEL 810-2, is also available. It is made using Sasol patented narrow range catalyst technology.

Applications

ALFONIC 810-2 Ethoxylate is particularly well suited for hard-surface cleaning applications. It performs better than traditional hard-surface cleaning surfactants (e.g. alkylphenol ethoxylates) because it contains a smaller hydrophobe, which significantly improves its solvency properties. Use of a shorter chain ethoxylate also helps eliminate the need for an organic solvent (e.g. ethylene glycol monobutyl ether) in the cleaning formulation. ALFONIC 810-2 Ethoxylate may also be sulfated and used as an agricultural emulsifier.

Properties

Typical physical properties are listed in the table to the right. Actual properties will vary from lot to lot.

Contact information

For technical information:

Product Steward

2201 Old Spanish Trail

Westlake, Louisiana 70669

Telephone: +1(337)494-4133

TDS.ProductSteward@us.sasol.com

For sales, pricing or samples,

contact a sales representative at:

Telephone: +1(281)588-3000

info@us.sasol.com

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Typical properties	ALFONIC 810-2
Avg. molecular weight, g/mol	236 – 248
Avg. EO content, wt. %	38
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	226 – 238
Water, wt. %	0.1 max.
Glycol, wt. %	2 max.
Free alcohol, wt. %	22 max.
Density, g/mL @ 40°C / 104°F	0.908
Flash point, °C (°F)	--
Cloud point, 10% in BDG, °C (°F)	49 (120)
Pour Point, °C (°F)	-19 (-2)
Viscosity, cSt @ 40°C / 104°F	9.2
pH, 5% in IPA/water	6.5 – 7.5
Color, APHA, mg Pt/L	50 max.
HLB, calculated	7.6
Wettability on cotton, seconds	46
Critical Micelle Concentration, mg/L	200.05
SFT, mN/m	25
Avg. Contact Angle on PTFE	31.57
Solubility in water, 2 wt. %	Soluble

**Mix samples well before use.*

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Sasol Chemicals North America LLC

12120 Wickchester Lane, Houston, TX 77079-2990

Phone +1 (281)588-3000, info@us.sasol.com

www.sasolnorthamerica.com