

NOVEL 8-7 Ethoxylate



SASOL

Technical Data Sheet

Description

Sasol Chemicals NOVEL 8-7 Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL 8 Alcohol. This 7-mole ethoxylate is made using Sasol Chemicals patented NOVEL technology which yields narrow range products with lower free alcohol, PEG levels and melting ranges when compared to the traditional base-catalyzed methods. NOVEL 8-7 Ethoxylate is liquid at room temperature, essentially 100% active and has the following structural formula: $\text{CH}_3(\text{CH}_2)_7(\text{OCH}_2\text{CH}_2)_7\text{OH}$.

Applications

NOVEL 8-7 Ethoxylate may be used in a wide array of applications including as a high quality, biodegradable emulsifier, foaming agent and/or cleaner in a variety of household and industrial cleaning products. It may also be used in such industrial applications as textile and leather processing, plastics additives, paints and coatings, pulp and paper processing, metal cleaners, car wash products, agricultural adjuvants, mining frothier and circuit board cleaners.

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 8-7
Avg. molecular weight, g/mol	438
Avg. EO content, wt. %	70
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	125 – 131
Water, wt. %	0.1 max.
Glycol, wt. %	1 max.
Free alcohol, wt. %	1 max.
Density, g/mL @ 40°C / 104°F	0.997
Flash point, °C (°F)	--
Cloud point, 1% in water, °C (°F)	82 (180)
Pour Point, °C (°F)	4 (39)
Viscosity, cSt @ 40°C / 104°F	18.9
pH, 1% in IPA/water	6 – 8
Color, APHA, mg Pt/L	50 max.
HLB, calculated	14
Wettability on cotton, seconds	2
Critical Micelle Concentration, mg/L	866.15
SFT, mN/m	28.5
Avg. Contact Angle on PTFE	52.59
Solubility in water, 2 wt. %	Soluble

**Mix samples well before use.*

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