

NOVEL 1012GB-21 Ethoxylate



SASOL

Technical Data Sheet

Description

Sasol Chemicals NOVEL 1012-21 Ethoxylate is a biodegradable nonionic derived from linear, primary ALFOL 1012GB Alcohol. This 21-mole ethoxylate is made using Sasol Chemicals patented NOVEL catalyst technology which yields narrow range products with lower free alcohol, PEG levels and melting ranges when compared to the traditional base-catalyzed methods. NOVEL 1012GB-21 Ethoxylate is solid at room temperature, essentially 100% active and has following structural formula: $\text{CH}_3(\text{CH}_2)_x(\text{OCH}_2\text{CH}_2)_{21}\text{OH}$ where 'x' varies between 9 and 11.

Applications

NOVEL 1012GB-21 Ethoxylate may be used in a wide array of applications including as a high quality, biodegradable emulsifier 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 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 1012GB-21
Avg. molecular weight, g/mol	1086
Avg. EO content, wt. %	85
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	46 – 54
Water, wt. %	0.5 max.
Glycol, wt. %	1 max.
Free alcohol, wt. %	1 max.
Density, g/mL @ 60°C / 140°F	1.033
Flash point, °C (°F)	> 204 (400)
Cloud range, 1% in saltwater	78 (172)
Melting range, °C (°F)	34 – 38 (93 – 100)
Boiling range, °C (°F)	218 – 273 (424 – 523)
Viscosity, cSt @ 60°C / 140°F	35.5
pH, 1% in IPA/water	6 – 8
Color, APHA, mg Pt/L	150 max.
HLB, calculated	17
Wettability on cotton, seconds	--
Critical Micelle Concentration, mg/L	--
SFT, mN/m	--
Avg. Contact Angle on PTFE	--
Solubility in water, 2 wt. %	Soluble

**Mix samples well before use.*

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