

NOVEL 1216CO-7 Ethoxylate



SASOL

Technical Data Sheet

Description

Sasol Chemicals NOVEL 1216CO-7 Ethoxylate is a biodegradable nonionic based on a linear primary alcohol formulated to simulate that derived from coconut oil. 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 1216CO-7 Ethoxylate is liquid at room temperature, essentially 100% active and has the following structural formula: $\text{CH}_3(\text{CH}_2)_x(\text{OCH}_2\text{CH}_2)_7\text{OH}$ where 'x' varies between 11 and 15.

Applications

NOVEL 1216CO-7 Ethoxylate has been proven to be the surfactant of choice for effective and efficient soil removal. This product is often one of the main surfactants in liquid detergents, hard-surface cleaners and other industrial cleanser formulations. Additionally, NOVEL 1216CO-7 Ethoxylate may be used as a cost effective wetting agent, degreaser and emulsifier.

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 1216CO-7
Avg. molecular weight, g/mol	480 – 524
Avg. EO content, wt. %	61
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	107 – 117
Water, wt. %	0.1 max.
Glycol, wt. %	1 max.
Free alcohol, wt. %	1 max.
Density, g/mL @ 40°C / 104°F	0.970
Flash point, °C (°F)	> 200 (392)
Cloud range, 1% in water, °C (°F)	55-61 (131-142)
Pour point, °C (°F)	13 (55)
Viscosity, cSt @ 40°C / 104°F	25.54
pH, 1% in IPA/water	6 – 8
Color, APHA, mg Pt/L	50 max.
HLB, calculated	12.2
Wettability on cotton, seconds	41
Critical Micelle Concentration, mg/L	19
SFT, mN/m	29.5
Avg. Contact Angle on PTFE	49.52
Solubility in water, 2 wt. %	Soluble

**Mix samples well before use.*

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