

# ALFONIC 1216CO-3 Ethoxylate



SASOL

## Technical Data Sheet

### Description

Sasol Chemicals ALFONIC 1216CO-3 Ethoxylate is a biodegradable nonionic based on a linear primary alcohol formulated to simulate that derived from coconut oil. ALFONIC 1216CO-3 Ethoxylate is liquid at room temperature, essentially 100% active and has the following structural formula:

$\text{CH}_3(\text{CH}_2)_x(\text{OCH}_2\text{CH}_2)_3\text{OH}$  where 'x' varies between 11 and 15.

The narrow range version of this ethoxylate made using Sasol Chemicals patented NOVEL catalyst technology is also available.

### Applications

ALFONIC 1216CO-3 Ethoxylate may be used in a wide array of applications including detergents, personal care, household and industrial cleaning, agricultural adjuvants, pulp and paper processing, textile and leather processing. Additionally, ALFONIC 1216CO-3 Ethoxylate may be further derivatized for use as an anionic surfactant.

### 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:

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### Don't see what you are looking for?

Sasol Chemicals offers a wide range of alcohols and surfactants. Please contact us for information about creating your own personalized product.

Typical properties	ALFONIC 1216CO-3
Avg. molecular weight, g/mol	329
Avg. EO content, wt. %	40
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	165 - 175
Water, wt. %	0.1 max.
Glycol, wt. %	1 max.
Free alcohol, wt. %	18 max.
Density, g/mL @ 40°C / 104°F	0.934
Flash point, °C (°F)	> 175 (347)
Cloud point, 10% in BDG, °C (°F)	62 (144)
Pour point, °C (°F)	5 (41)
Viscosity, cSt @ 40°C / 104°F	15
pH, 5% in IPA/water	5 – 8
Color, APHA, mg Pt/L	50 max.
HLB, calculated	8.0
Wettability on cotton, seconds	580
Critical Micelle Concentration, mg/L	79.35
SFT, mN/m	24.38
Avg. Contact Angle on PTFE	47.27
Solubility in water, 2 wt. %	Insoluble

*\*Mix samples well before use.*

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