

ALFONIC 1412-7 Ethoxylate



SASOL

Technical Data Sheet

Description

Sasol Chemicals ALFONIC 1412-7 Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL 1412 Alcohol. ALFONIC 1412-7 Ethoxylate is liquid above 25°C, 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 13.

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

Applications

ALFONIC 1412-7 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, 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	ALFONIC 1412-7
Avg. molecular weight, g/mol	513
Avg. EO content, wt. %	60
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	97 – 117
Water, wt. %	0.1 max.
Glycol, wt. %	3 max.
Free alcohol, wt. %	5 max.
Density, g/mL @ 40°C / 104°F	0.969
Flash point, °C (°F)	> 166 (330)
Cloud point, 1% in water, °C (°F)	47 – 57 (117 – 135)
Pour Point, °C (°F)	20 (68)
Viscosity, cSt @ 40°C / 104°F	29
pH, 5% in IPA/water	6 – 7.5
Color, APHA, mg Pt/L	50 max.
HLB, calculated	12
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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