

ALFONIC 1412-9 Ethoxylate



SASOL

Technical Data Sheet

Description

Sasol Chemicals ALFONIC 1412-9 Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL 1412 Alcohol. ALFONIC 1412-9 Ethoxylate is liquid at room temperature, essentially 100% active and has the following structural formula: $\text{CH}_3(\text{CH}_2)_x(\text{OCH}_2\text{CH}_2)_9\text{OH}$ 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 1412-9 Ethoxylate may be used in a wide array of applications including as a high quality, biodegradable emulsifier, detergent and in industrial and institutional cleaning products. It may also be used in industrial applications such as textile and leather processing, plastic additives, pulp and paper processing, metal cleaners and agricultural adjuvants.

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 1412-9 |
|--------------------------------------|----------------|
| Avg. molecular weight, g/mol | 601 |
| Avg. EO content, wt. % | 66 |
| Free EO, ppm | 1 max. |
| Hydroxyl number, mg KOH/g | 86 – 98 |
| Water, wt. % | 0.1 max. |
| Glycol, wt. % | 3 max. |
| Free alcohol, wt. % | 2 max. |
| Density, g/mL @ 40°C / 104°F | 0.986 |
| Flash point, °C (°F) | > 170 (338) |
| Cloud point, 1% in water, °C (°F) | 77 (171) |
| Pour Point, °C (°F) | 22 (72) |
| Viscosity, cSt @ 40°C / 104°F | 35.1 |
| pH, 5% in IPA/water | 6 – 7.5 |
| Color, APHA, mg Pt/L | 50 max. |
| HLB, calculated | 13.2 |
| Wettability on cotton, seconds | 447 |
| Critical Micelle Concentration, mg/L | 11.65 |
| SFT, mN/m | 28.5 |
| Avg. Contact Angle on PTFE | 36.99 |
| Solubility in water, 2 wt. % | Soluble |

**Mix samples well before use.*

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