

ALFONIC 1012-5 Ethoxylate



SASOL

Technical Data Sheet

Description

Sasol Chemicals ALFONIC 1012-5 Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL1012 Alcohol. ALFONIC 1012-5 Ethoxylate is liquid at room temperature, essentially 100% active and has the following structural formula: $\text{CH}_3(\text{CH}_2)_x(\text{OCH}_2\text{CH}_2)_5\text{OH}$ where 'x' varies between 9 and 11.

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

Applications

ALFONIC 1012-5 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 | ALFONIC 1012-5 |
|--------------------------------------|----------------|
| Avg. molecular weight, g/mol | 410 |
| Avg. EO content, wt. % | 57.4 |
| Free EO, ppm | 1 max. |
| Hydroxyl number, mg KOH/g | 140 - 148 |
| Water, wt. % | 0.1 max. |
| Glycol, wt. % | 2 max. |
| Free alcohol, wt. % | 6 max. |
| Density, g/mL @ 40°C / 104°F | 0.925 |
| Flash point, °C (°F) | > 143 (290) |
| Cloud point, 1% in water, °C (°F) | 36 (97) |
| Pour Point, °C (°F) | 39 (102) |
| Viscosity, cSt @ 40°C / 104°F | 10.5 |
| pH, 5% in IPA/water | 6 - 8 |
| Color, APHA, mg Pt/L | 50 max. |
| HLB, calculated | 11.5 |
| Wettability on cotton, seconds | 18 |
| Critical Micelle Concentration, mg/L | 61.27 |
| SFT, mN/m | 26.7 |
| Avg. Contact Angle on PTFE | 38.08 |
| Solubility in water, 2 wt. % | Soluble |

**Mix samples well before use.*

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