



TERGITOL™ NP-11 Surfactant

Product Information

Chemical Description

Name: Nonylphenol Ethoxylate

Surfactant Type: Nonionic

Benefits

- Excellent detergency
- Outstanding wetting
- Versatile solubility characteristics
- Low odor

Applications

- Cleaners & detergents
- Paper & textile processing
- Paints & coatings
- Agrochemicals
- Metalworking fluids

Typical Physical Properties

Actives, wt%	100
Cloud Point ⁽¹⁾	72
HLB ⁽²⁾	13.8
Moles EO	11
Pour Point ⁽³⁾	11
Appearance	Pale yellow liquid
pH, 1% aq solution	5
Viscosity at 25°C (77°F), cP	260
Density at 20°C (68°F), g/mL	1.066
Flash Pt, Closed Cup, ASTM D93	246°C 475°F

⁽¹⁾ Cloud point: °C, 1 wt% actives aqueous solution

⁽²⁾ HLB Range: <10 w/o emulsifier, > 10 o/w emulsifier, 10-15 good wetting, 12-15 detergents

⁽³⁾ Pour point: °C

Typical Performance Properties

CMC ⁽⁴⁾	71
Surface Tension ⁽⁵⁾	34
Foam Height ⁽⁶⁾	112/92

⁽⁴⁾ Critical Micelle Concentration: ppm at 25°C

⁽⁵⁾ Surface tension: dynes/cm at 1% actives, 25°C

⁽⁶⁾ Ross-Miles foam height: mm at 0.1 wt% actives, 25°C, initial / 5 minute

Solubility and Compatibility

- Soluble in water
- Soluble in chlorinated solvents and most polar solvents
- Chemically stable in the presence of dilute acids, bases and salts
- Compatible with soaps, anionic and other nonionic surfactants, and many organic solvents

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<http://www.dow.com/surfactants>

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