



## TERGITOL™ NP-40 Surfactant

### Product Information

#### Chemical Description

Name: Nonylphenol Ethoxylate

Surfactant Type: Nonionic

#### Benefits

- Effective at high temperatures
- Highly water-soluble emulsifier & stabilizer
- Wetting
- Versatile solubility characteristics
- Low odor
- Detergency

#### Applications

- Paper & textile processing
- Paints & coatings
- Agrochemicals

#### Typical Physical Properties

Actives, wt%	100
Cloud Point <sup>(1)</sup>	>100
HLB <sup>(2)</sup>	17.8
Moles EO	40
Pour Point <sup>(3)</sup>	48
Appearance	Waxy white solid
pH, 1% in 10:6 isopropanol/water	6.3
Viscosity at 25°C (77°F), cP	Solid
Density at 20°C (68°F), g/mL	Solid
Flash Pt, Closed Cup, ASTM D93	257°C 495°F

<sup>(1)</sup> Cloud point: °C, 1 wt% actives aqueous solution

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

<sup>(3)</sup> Pour point: °C

#### Typical Performance Properties

CMC <sup>(4)</sup>	230
Surface Tension <sup>(5)</sup>	50
Foam Height <sup>(6)</sup>	123/115

<sup>(4)</sup> Critical Micelle Concentration: ppm at 25°C

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

<sup>(6)</sup> 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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