


**TERGITOL™ NP-13 Surfactant**

## Product Information

**Chemical  
Description**

Name: Nonylphenol Ethoxylate

Surfactant Type: Nonionic

**Benefits**

- Excellent detergency
- Outstanding wetting
- Versatile solubility characteristics

**Applications**

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

**Typical Physical Properties**

Actives, wt%	100
Cloud Point <sup>(1)</sup>	82
HLB <sup>(2)</sup>	13.9
Moles EO	13
Pour Point <sup>(3)</sup>	14
Appearance	Yellow liquid
pH, 1% aq solution	6
Viscosity at 25°C (77°F), cP	253
Density at 20°C (68°F), g/mL	1.068
Flash Pt, Closed Cup, ASTM D93	204°C 400°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>	66
Surface Tension <sup>(5)</sup>	35
Foam Height <sup>(6)</sup>	118/97
Draves 20 sec wetting conc, wt% at 25°C (77°F)	0.09

<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

**Contact information goes here:**

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

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