



TERGITOL™ NP-4 Surfactant

Product Information

Chemical Description

Name: Nonylphenol Ethoxylate

Surfactant Type: Nonionic

Benefits

- Excellent oil-soluble surfactant
- Low HLB emulsifier
- Low odor
- Exceptional handling properties

Applications

- Cleaners & degreasers
- Dry cleaning
- Dispersant for petroleum oil

Typical Physical Properties

Actives, wt%	100
Cloud Point ⁽¹⁾	Insoluble
HLB ⁽²⁾	8.9
Moles EO	4
Pour Point ⁽³⁾	-28
Appearance	Pale yellow liquid
pH, 1% in 10:6 isopropanol/water	7.2
Viscosity at 25°C (77°F), cP	238
Density at 20°C (68°F), g/mL	1.027
Flash Pt, Closed Cup, ASTM D93	218°C 425°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⁾	Insoluble
Surface Tension ⁽⁵⁾	Insoluble
Foam Height ⁽⁶⁾	Insoluble

⁽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

- Insoluble in water
- Soluble in chlorinated solvents and most polar and non-polar solvents and oils
- 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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