



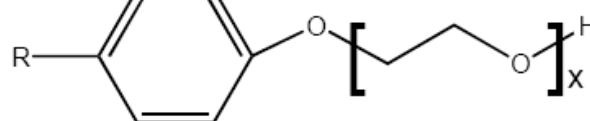
## TRITON™ X-102 Surfactant

### Product Information

#### Chemical Description

Name: Octylphenol Ethoxylate

Surfactant Type: Nonionic



R = octyl (C8)  
x = 12 (avg)

#### Benefits

- Excellent detergent & dispersant
- Good wetting agent
- Effective at high temperatures
- Good solubilizer for less soluble nonionic & anionic surfactants

#### Applications

- Dispersant for agrochemicals and oilfield applications
- High temperature systems
- Detergent and wetting agent for hard surface cleaners, metal cleaners, paper production, textile processing, paints and coatings

#### Typical Physical Properties

Actives, wt%	100
Cloud Point <sup>(1)</sup>	88
HLB <sup>(2)</sup>	14.4
Moles EO	12
pH, 5% aq solution	8.8
Pour Point <sup>(3)</sup>	13
Appearance <sup>(4)</sup>	Pale yellow liquid
Viscosity at 25°C (77°F), cP	330
Density at 25°C (77°F), g/mL	1.070
Flash Pt, Closed Cup, ASTM D93	254°C 490°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

<sup>(4)</sup> Appearance at 25°C

#### Typical Performance Properties

CMC <sup>(5)</sup>	267
Surface Tension <sup>(6)</sup>	36
Foam Height <sup>(7)</sup>	124/75
Draves 25 sec wetting conc, wt% at 25°C (77°F)	0.06

<sup>(5)</sup> Critical Micelle Concentration: ppm at 25°C

<sup>(6)</sup> Surface tension: dynes/cm at 1% actives, 25°C

<sup>(7)</sup> Ross-Miles foam height: mm at 0.1 wt% actives, 25°C, initial / 5 minute

## Solubility and Compatibility

- Soluble in water
- Miscible in most polar organic solvents & aromatic hydrocarbons
- Insoluble in aliphatic hydrocarbons
- Chemically stable in most acidic & alkaline solutions
- Compatible with anionic, cationic, and other nonionic surfactants

### Contact information goes here:

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

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