

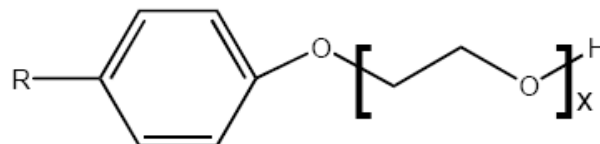


## TRITON™ X-405 (70%) Surfactant

### Product Information

#### Chemical Description

Name: Octylphenol Ethoxylate  
Surfactant Type: Nonionic



R = octyl (C8)  
x = 35 (avg)

#### Benefits

- Excellent emulsion stabilizer
- Provides freeze/thaw & ionic stability
- High HLB emulsifier & dispersant
- Effective at high temperatures
- Good solubility in the presence of salts or electrolytes & caustic solutions

#### Applications

- Emulsion polymerization
- Paints & coatings
- Floor polish & wax emulsions

#### Typical Physical Properties

Actives, wt%	70
Cloud Point <sup>(1)</sup>	>100
HLB <sup>(2)</sup>	17.6
Moles EO	35
Pour Point <sup>(3)</sup>	-6
Appearance <sup>(4)</sup>	Pale yellow liquid
pH, 1% in 6H <sub>2</sub> O+10IPA)	7
Viscosity at 25°C (77°F), cP	490
Density at 25°C (77°F), g/mL	1.096
Flash Pt, Closed Cup, ASTM D93	None

<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>	2442
Surface Tension <sup>(6)</sup>	52
Foam Height <sup>(7)</sup>	93/22

<sup>(3)</sup> Critical Micelle Concentration: ppm at 25°C

<sup>(4)</sup> Surface tension: dynes/cm at 1% actives, 25°C

<sup>(5)</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
- Insoluble in aliphatic & aromatic hydrocarbons
- Chemically stable in most acidic & alkaline solutions
- Compatible with anionic, cationic and other nonionic surfactants

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