

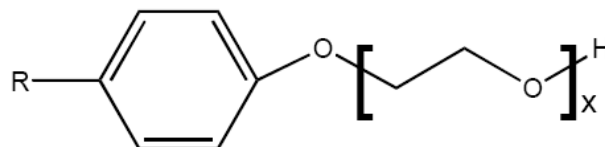
**TRITON™ X-15**

Surfactants

Chemical Description

Name: Octylphenol Ethoxylate

Surfactant Type: Nonionic



R = octyl (C8)

x = 1.5 (avg)

Benefits

- Oil-soluble emulsifier
- Solubilizer
- Very low HLB
- Excellent compatibility with both polar organic and non-polar solvents

Applications

- Defoamers
- Dye solubilizer
- Chemical intermediate

Typical Physical Properties

Actives, wt%	100
Cloud Point ⁽¹⁾	Insoluble
HLB ⁽²⁾	4.9
Moles EO	1.5
pH, 5% aq solution	7.1
Pour Point ⁽³⁾	3
Appearance ⁽⁴⁾	Yellow liquid
Viscosity at 25°C (77°F), cP	790
Density at 25°C (77°F), g/mL	0.989
Flash Pt, Closed Cup, ASTM D93	171°C 340°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⁽⁴⁾ Appearance at 25°C**Typical Performance Properties**

CMC ⁽⁵⁾	Insoluble
Surface Tension ⁽⁶⁾	Insoluble
Foam Height ⁽⁷⁾	Insoluble
Draves 25 sec wetting conc, wt%	Insoluble

⁽⁵⁾ Critical micelle concentration: ppm at 25°C⁽⁶⁾ Surface tension: dynes/cm at 1% actives, 25°C⁽⁷⁾ Ross-Miles foam height: mm at 0.1 wt% actives, 25°C, initial/5 minute

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Solubility and Compatibility

Contact information goes here:

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

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

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