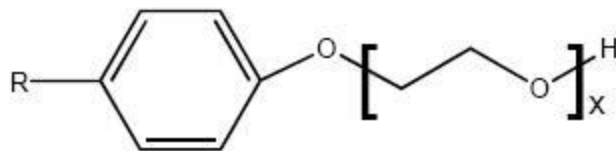




TRITON™ X-100 Surfactant

Chemical Description

Name: Octylphenol Ethoxylate
Surfactant Type: Nonionic



Benefits

- Excellent detergent
- Dispersant & emulsifier for oil-in-water systems
- Effective performance across a broad temperature range
- Excellent wetting agent
- Readily biodegradable

Applications

- Household & industrial cleaners
- Paints & coatings
- Pulp & paper
- Oilfield
- Textile
- Agrochemicals
- Metalworking fluids

Typical Physical Properties

These properties are typical but do not constitute specifications.

Actives, wt%	100
Cloud Point ¹	66
HLB ²	13.4
Moles EO	9.5
pH, 5% aq solution	6
Pour point ³	1
Appearance ⁴	Pale yellow liquid
Viscosity at 25°C (77°F), cP	240
Density at 25°C (77°F), g/mL	1.061
Flash Pt, Closed Cup, ASTM D93	251°C 485°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	189
Surface Tension ⁶	33
Foam Height ⁷	128/107
Draves 25 sec wetting conc, wt% at 25°C (77°F)	0.06

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

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
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