Product Information

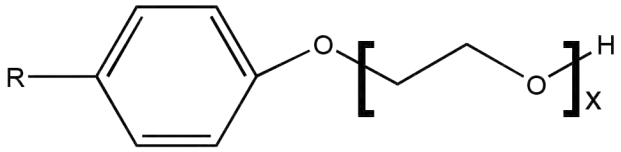
TRITON™ X-100 & X-100 CG

Surfactants

Chemical Description

Name: Octylphenol Ethoxylate

Surfactant Type: Nonionic



R = octyl (C8)
x = 9.5 (avg)

Benefits

- Excellent detergent
- Dispersant & emulsifier for oil-in-water systems
- Effective performance across a broad temperature range
- Excellent wetting agent
- TRITON X-100 CG offers a clearer grade product
- Readily biodegradable

Applications

- Household & industrial cleaners
- Paints & coatings
- Pulp & Paper
- Oilfield
- Textile
- Agrochemicals
- Metalworking Fluids

Typical Physical Properties

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

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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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