



TRITON™ DF-12 Surfactant  
Product Information

Chemical  
Description

Name: Low Foam  
Surfactant Type: Nonionic

Benefits

- Low Foam at low temperatures
- Good stability on solid caustic
- Good food soil defoaming performance
- Readily biodegradable

Applications

- Food & Dairy Cleaners
- Machine Dishwash
- Metal Cleaners
- Pulp & Paper
- Rinse Aids
- Wetting Agent

Typical Physical Properties

Active Ingredient, wt%	100
Cloud Point, 1% aq. soln., °C (°F)	17 (63)
Appearance	Transparent, colorless liquid
HLB (calculated)	10.6
pH, 5% aq solution	6
Viscosity at 25°C (77°F), cP	60
Density at 25°C (77°F)	1.068
Flash Pt, Closed Cup, ASTM D93	None
Pour Point, ASTM D97, °C (°F)	16 (61)

Typical Performance Properties

Surface Tension <sup>(1)</sup>	34
Critical Micelle Concentration (CMC), ppm	290
Draves 25 sec wetting conc, wt% at 25°C (77°F)	0.07
at 50°C (122°F)	0.08
Hamilton Beach Foam Test, 0.01 wt%	
at 25°C (77°F), cm	0.8
at 50°C (122°F)	0.5
at 75°C (167°F)	0.1

<sup>(1)</sup> 1 wt% actives, dynes/cm

Solubility and  
Compatibility

- Soluble in water
- Soluble in alcohols, aromatics, and chlorinated solvents
- Insoluble in highly aliphatic solvents, glycols, and glycerine
- Chemically stable in acidic & alkaline solutions
- Compatible with anionic, cationic, and other nonionic surfactants

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