

Surf's Up® Surfactant Data Table

Surfactants provided as 10% aqueous solutions. Store at room temperature away from direct sunlight.

No.	Name	MW	Class	Application	HLB No.
1	Aerosol® OT Sodium dioctyl-sulfosuccinate	445	Anionic	Good wetter and emulsifier. Good antifog, mold release and dispersing properties.	13.5
2	Benzalkonium chloride	340	Cationic	Solvent compatible, antimicrobial.	Not available
3	BRIJ® 35 Polyoxyethylene (35) dodecyl ether	1200	Non-ionic	Good solubilizer and emulsifier.	16.9
4	BRIJ® 52 Polyethylene glycol hexadecyl ether	330	Non-ionic	Good solubilizer and emulsifier.	5
5	BRIJ® 98 Polyoxyethylene (20) oleyl ether	1150	Non-ionic	Good solubilizer and emulsifier.	15
6	CHEMAL LA-9 Polyoxyethylene (9) lauryl alcohol	583	Non-ionic	Protein solubilization.	13.3
7	Cremophor® EL Polyethoxylated (35) castor oil	3000	Non-ionic	Non-hemolytic, solvent compatible, good emulsifier and solubilizer.	12-14
8	IGEPAL® CA-630 Octylphenoxypoly(ethyleneoxy) ethanol, branched	~603	Non-ionic	Solvent compatible, good emulsifier.	13
9	Merpel® A Octyl alcohol phosphate esters	~350-650	Non-ionic	Low foaming wetting agent soluble in many organics.	6
10	Pluronic® F68 Poly(oxyethylene-cooxypropylene) block copolymer	8400	Non-ionic	Good solubilizer.	>24
11	Pluronic® F127 Poly(oxyethylene-cooxypropylene) block copolymer	12500	Non-ionic	Good dispersant and anti-foaming agent.	18-23
12	Pluronic® L64 Poly(oxyethylene-cooxypropylene) block copolymer	2900	Non-ionic	Non-hemolytic, solvent compatible, low foaming, good wetter.	12-18
13	Silwet® L7600 Polydimethylsiloxane methylethoxylate	4000	Non-ionic	Non hemolytic, water soluble, silicone base, good anti-fogger.	13-17
14	Surfactant 10G p-Isononylphenoxy-poly(glycidol)	Mixture	Non-ionic	Non-hemolytic, enzyme compatible, low foaming, good wetter.	12.4

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15	2,4,7,9-tetramethyl-5-decyne-4,7- diol ethoxylate Equivalent to Surfynol®	700	Non-ionic	Non-hemolytic, good wetter and defoamer.	13
16	Synperonic® F108 Polyethylene glycol-polypropylene glycol- polyethyleneglycol triblock polymer	14000	Non-ionic	Good emulsifier and solubilizer.	27
17	Tergitol® Nonylphenol ethoxylate	603	Non-ionic	Water soluble, good emulsifier, stabilizer, and wetter.	17.8
18	Tetronic® 90R4 Ethylenediamine tetrakis (ethoxylate-block-propoxylate) tetrol	7200	Amphoteric	Solvent compatible, non-hemolytic, antistatic, good defoamer and disperser.	1-7
19	Triton® X-45 Octylphenoxypolyethoxy (5) ethanol	426	Non-ionic	Solvent compatible, good emulsifier and dispersant.	10.4
20	Triton® X-100 Octylphenoxypolyethoxy (9-10) ethanol	625	Non-ionic	Enzyme compatible, good emulsifier, wetter, and dispersant.	13.5
21	Triton® X-305 Octylphenoxypolyethoxy (30) ethanol	1526	Non-ionic	Non-hemolytic, water soluble, good emulsifier, wetter, and dispersant.	17.3
22	Tween® 20 Polyoxyethylene (20) sorbitan monolaurate	1228	Non-ionic	Non-hemolytic, very hydrophilic, good emulsifier and solubilizer.	16.7
23	Tween® 60 Polyethylene glycol sorbitan monostearate	1309	Non-ionic	Good emulsifier and solubilizer.	14.9
24	Tween® 80 Polyethylene glycol sorbitan monooleate	1310	Non-ionic	Good emulsifier and solubilizer.	15

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Surf's Up Surfactant Kit ELISA Kit

Product Information

Product No.: K40000

Product Description

Background:

Surf's Up Surfactant Kit ELISA Kit (K40000) contains a range of surfactants with a variety of characteristics assembled for validation and development use in immunoassays to improve membrane wetting, color development, reagent solubility, reagent stability, and reproducibility of results.

USES

Minimize non-specific protein absorption.

Minimize aggregation.

Minimize matrix effect (non-specific interaction between samples and assay reagents).

Improve reagent stability.

Modify solid-phase surface charge.

Reduce foaming.

Improve sample flow through membranes.

Disrupt cell membranes.

FEATURES AND BENEFITS

24 different surfactants in each kit: non-ionic, anionic, cationic, and amphoteric.

An easy way to test different surfactants, or combinations, for different assays.

An economical way to test several surfactants without purchasing and storing unwanted quantities.

Ready-to-use 10% solutions eliminate the need for weighing and solubilizing.

Suggested applications for each surfactant are provided.

Formulation

Chemicals in the Surf's Up Surfactant Kit are provided as ready-to-use 10% solutions.

Storage and Stability

Store at room temperature away from direct sunlight.

Country of Origin

USA