

## Triton X-100

## Chemical Properties

CAS No. : 9002-93-1

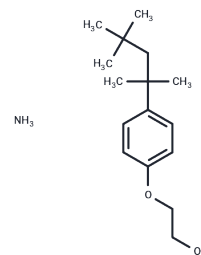
Formula: C<sub>16</sub>H<sub>29</sub>NO<sub>2</sub>

Molecular Weight: 267.413

Keep away from moisture, Keep away from direct sunlight

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Triton X-100 is a non-denaturing detergent that solubilizes lipid membranes. Triton X-100 is commonly used in laboratories and is applied to vaccines at different stages of the manufacturing process. Triton X-100 is listed as an excipient in certain vaccines including split virus influenza vaccines. Triton X-100 is a nonionic surfactant [1] [2].
Targets(IC50)	Others
In vitro	Triton X-100 (ranging from 0.5% to 0.05%; 1 h; Vero E6 cells) obtained with WNV showed that infectivity was reduced by 6 Logs. This effect was not time-dependent using 0.1% Triton X-100. We applied the method to EBOV and one-hour exposure to 0.1% Triton X-100 strongly affected EBOV infectivity (4 Logs of infectivity reduction).[3]

## Solubility Information

Solubility	DMSO: 45.00 mg/mL (168.28 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7396 mL	18.6979 mL	37.3958 mL
5 mM	0.7479 mL	3.7396 mL	7.4792 mL
10 mM	0.374 mL	1.8698 mL	3.7396 mL
50 mM	0.0748 mL	0.374 mL	0.7479 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Herman SM, et al. The hidden allergen: Triton X-100, a derivative of polyethylene glycol. *J Allergy Clin Immunol Pract.* 2021;9(7):2941.

Ghosh R, et al. Unraveling diverse action of triton X-100 and methimazole on lysozyme fibrillation/aggregation: Physicochemical insights. *Int J Biol Macromol.* 2021;167:736-745.

Colavita F, et al. Evaluation of the inactivation effect of Triton X-100 on Ebola virus infectivity. *J Clin Virol.* 2017;86: 27-30.

Vrestkin AP, et al. Effect of Triton X-100 on properties of acetylcholinesterase from human erythrocytes. *Biokhimiia.* 1978;43(1):94-99.

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