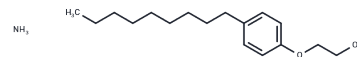


## 4-Nonylphenol polyethoxylate

## Chemical Properties

CAS No. :	26027-38-3
Formula:	(C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>15</sub> H <sub>24</sub> O
Molecular Weight:	281.44
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	4-Nonylphenol polyethoxylate (Nonoxinol-9) is a typical surfactant used as a vaginal spermicide. Spermicides are locally acting non-hormonal contraceptives. When present in the vagina during intercourse, they immobilize/inactivate/damage and/or kill sperms without eliciting systemic effects. 4-Nonylphenol polyethoxylate has been in use for more than 30 years as an over-the-counter (OTC) drug in creams, gels, foams and condom lubricants. It is the most commonly used spermicidal contraceptive in the UK and the USA. In several European countries, spermicides are no longer on the market.
Targets(IC50)	COX

## Solubility Information

Solubility	DMSO: 55.00 mg/mL (195.42 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5532 mL	17.7658 mL	35.5316 mL
5 mM	0.7106 mL	3.5532 mL	7.1063 mL
10 mM	0.3553 mL	1.7766 mL	3.5532 mL
50 mM	0.0711 mL	0.3553 mL	0.7106 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

Zalenskaya IA, et al. Am J Reprod Immunol. 2011, 65(6):569-77.

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