

4-Nonylphenol polyethoxylate

Chemical Properties

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

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: 260.00 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10.00 mg/mL, Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Reference

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

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