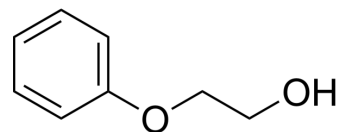


## Phenoxyethanol

<b>Cat. No.:</b>	HY-B1729	
<b>CAS No.:</b>	122-99-6	
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>10</sub> O <sub>2</sub>	
<b>Molecular Weight:</b>	138.16	
<b>Target:</b>	Bacterial; Oxidative Phosphorylation	
<b>Pathway:</b>	Anti-infection; Metabolic Enzyme/Protease	
<b>Storage:</b>	Pure form	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (723.80 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.2380 mL	36.1899 mL	72.3798 mL
	5 mM	1.4476 mL	7.2380 mL	14.4760 mL
	10 mM	0.7238 mL	3.6190 mL	7.2380 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (18.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (18.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (18.09 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Phenoxyethanol has a broad spectrum of antimicrobial activity against various gram-negative and gram-positive bacteria. Phenoxyethanol is an uncouple agent in oxidative phosphorylation from respiration and competitively inhibits malate dehydrogenase. Phenoxyethanol is used as a preservative in cosmetic, vaccine, and textile, et al<sup>[1]</sup>.

### REFERENCES

**Caution: Product has not been fully validated for medical applications. For research use only.**

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