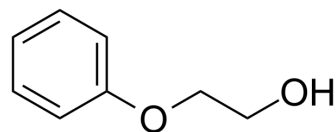


## Phenoxyethanol

|                           |   |       |          |
|---------------------------|---|-------|----------|
| <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                                     |       |          |
| <b>Pathway:</b>           | Anti-infection                                |       |          |
| <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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