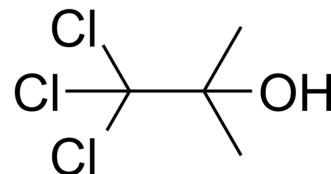


## Chlorobutanol

<b>Cat. No.:</b>	HY-B1263		
<b>CAS No.:</b>	57-15-8		
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>7</sub> Cl <sub>3</sub> O		
<b>Molecular Weight:</b>	177.46		
<b>Target:</b>	Bacterial; Fungal		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-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 (563.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.6351 mL	28.1754 mL	56.3507 mL
	5 mM	1.1270 mL	5.6351 mL	11.2701 mL
	10 mM	0.5635 mL	2.8175 mL	5.6351 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 (14.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (14.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (14.09 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Chlorobutanol is a pharmaceutical preservative with sedative-hypnotic actions. Chlorobutanol is active against a wide variety of Gram-positive and Gram-negative bacteria, and several mold spores and fungi. Chlorobutanol is widely used in food and cosmetic industry<sup>[1][2]</sup>.

### REFERENCES

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[1]. Smoak IW, et al. Chlorobutanol: maternal serum levels and placental transfer in the mouse. *Vet Hum Toxicol.* 1997 Oct;39(5):287-90.

[2]. Friesen WT, et al. The antibacterial stability of chlorobutanol stored in polyethylene bottles. *Am J Hosp Pharm.* 1971 Jul;28(7):507-12.

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

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