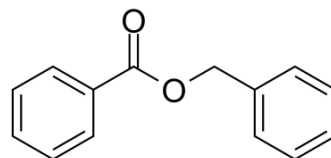


## Benzyl benzoate

Cat. No.:	HY-B0935
CAS No.:	120-51-4
Molecular Formula:	C <sub>14</sub> H <sub>12</sub> O <sub>2</sub>
Molecular Weight:	212.24
Target:	Parasite
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 50 mg/mL (235.58 mM)  
\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.7116 mL	23.5582 mL	47.1165 mL
	5 mM	0.9423 mL	4.7116 mL	9.4233 mL
	10 mM	0.4712 mL	2.3558 mL	4.7116 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 (11.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (11.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (11.78 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Benzyl benzoate (Benzoic acid benzyl ester) is a fragrance ingredient in cosmetic products. Benzyl benzoate can be used for the research of Scabies and Demodex-associated inflammatory skin conditions<sup>[1][2][3]</sup>.

### CUSTOMER VALIDATION

- 
- Int J Polym Anal Ch. 2021 Jan 7.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

---

- [1]. Johnson W, et, al. Safety Assessment of Benzyl Alcohol, Benzoic Acid and its Salts, and Benzyl Benzoate. Int J Toxicol. Nov/Dec 2017;36(3\_suppl):5S-30S.
- [2]. Jacob S, et, al. Treatment of Demodex-associated inflammatory skin conditions: A systematic review. Dermatol Ther. 2019 Nov;32(6):e13103.
- [3]. Dressler C, et, al. The Treatment of Scabies. Dtsch Arztebl Int. 2016 Nov 14;113(45):757-762.
- 

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA