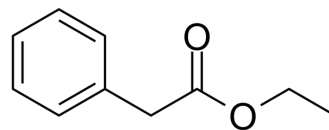


Ethyl phenylacetate

Cat. No.:	HY-W015371		
CAS No.:	101-97-3		
Molecular Formula:	C ₁₀ H ₁₂ O ₂		
Molecular Weight:	164.2		
Target:	Others		
Pathway:	Others		
Storage:	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 (609.01 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	6.0901 mL	30.4507 mL	60.9013 mL
	5 mM	1.2180 mL	6.0901 mL	12.1803 mL
	10 mM	0.6090 mL	3.0451 mL	6.0901 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 (15.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (15.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (15.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ethyl phenylacetate is a natural flavouring ingredient, and its sensory threshold is near 73 µg/L. Ethyl phenylacetate is a "greener" solvent with low toxicity. Ethyl phenylacetate is a non-mutagenic and is a Kosher food additive. Ethyl phenylacetate gives to the wines a strong honey-like character^{[1][2][3]}.

REFERENCES

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- [1]. Tat L, et al. Sweet-like off-flavor in Aglianico del Vulture wine: ethyl phenylacetate as the mainly involved compound. J Agric Food Chem. 2007 Jun 27;55(13):5205-12.
- [2]. Clark L, et al. Aerosolized essential oils and individual natural product compounds as brown treesnake repellents. Pest Manag Sci. 2002 Aug;58(8):775-83.
- [3]. Mary M. Caruso, et al. Full Recovery of Fracture Toughness Using a Nontoxic Solvent-Based Self-Healing System. Advances in Functional Materials 18(13), 1898-1904, (2008).
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Caution: Product has not been fully validated for medical applications. For research use only.

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