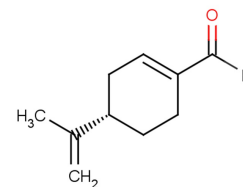


(-)-Perillaldehyde

Chemical Properties

CAS No.:	18031-40-8
Formula:	C ₁₀ H ₁₄ O
Molecular Weight:	150.22
Appearance:	Clear light yellow Liquid
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	(-)-Perillaldehyde shows antibacterial activity.
Targets(IC ₅₀)	Others: None
In vitro	METHODS AND RESULTS: Citral, trans-cinnamaldehyde, (-)-Perillaldehyde, (-)-citronellal, eugenol and carvacrol were tested for their influence on microbial count in air by vaporizing with an air washer. The highest antibacterial activity was observed when (-)-Perillaldehyde was sprayed. The average reduce of germ count was 53%. On the other hand, the antimicrobial activity of eugenol was the lowest of these six compounds. The average reduction of germ count was 13%. When water without volatile compounds was sprayed, the colony forming units increased. CONCLUSIONS: These results suggest the utility of selected aroma-compounds for the control of bacteria in the room.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.657 mL	33.285 mL	66.569 mL
5 mM	1.331 mL	6.657 mL	13.314 mL
10 mM	0.666 mL	3.328 mL	6.657 mL
50 mM	0.133 mL	0.666 mL	1.331 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Antimicrobial effect of trans-cinnamaldehyde, (-)-perillaldehyde, (-)-citronellal, citral, eugenol and carvacrol on airborne microbes using an airwasher. Biol Pharm Bull. 2006 Nov;29(11):2292-4.

Inhibitors · Natural Compounds · Compound Libraries

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