

Product Name	: (-)-Perillaldehyde
Synonyms	: —
Cat No.	: M22588
CAS Number	: 18031-40-8
Molecular Formula	: C10H14O
Formula Weight	: 150.22
Chemical Name	: —
Description	<p>(-)-Perillaldehyde shows antibacterial activity. 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.</p>
Pathway	: Endocrinology/Hormones
Target	: AhR
Receptor	: AhR;ROS;NRF2/HO1
Solubility	: —
SMILES	: <chem>CC(=C)[C@H]1CCCC(C=O)=CC1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
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.