



## Product Information

**Product ID** N1769  
**CAS No.** 7212-44-4  
**Chemical Name** 3,7,11-Trimethyldodeca-1,6,10-trien-3-ol, 3-Hydroxy-3,7,11-trimethyl-1,6,10-dodeatriene

**Synonym** Stirrup, Peruvial

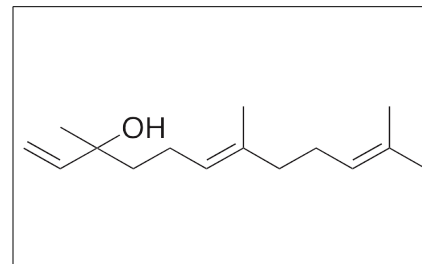
**Formula** C<sub>15</sub>H<sub>26</sub>O

**Formula Wt.** 222.37

**Melting Point** -75 °C

**Purity** A mixture of cis and trans

**Solubility** Sparingly soluble in water.



**Bulk quantities available upon request**

Product ID	Size
N1769	5 g
N1769	25 g

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Nerolidol exhibits neuromodulatory, sedative, antibacterial, antifungal, antioxidative, and anticancer activities. Nerolidol inhibits acetylcholinesterase (AChE) and acts as a sedative in vivo in the open field test. This compound also displays antimicrobial activity against gram negative and gram positive bacteria as well as fungi. In vivo, nerolidol increases superoxide dismutase and catalase activity and decreases lipid peroxidation and nitrite levels in the hippocampus. Additionally, nerolidol modulates F<sub>0</sub>F<sub>1</sub>-ATP synthase, decreasing mitochondrial transmembrane electric potential, inhibiting cell growth, and causing death in hepatocarcinoma cells.

**References** Nogueira Neto JD, de Almeida AA, da Silva Oliveira J, et al. Antioxidant effects of nerolidol in mice hippocampus after open field test. *Neurochem Res.* 2013 Sep;38(9):1861-70. PMID: 23765368.

Tao R, Wang CZ, Kong ZW. Antibacterial/antifungal activity and synergistic interactions between polyprenols and other lipids isolated from *Ginkgo biloba* L. leaves. *Molecules.* 2013 Feb 7;18(2):2166-82. PMID: 23434869.

Kang JS, Kim E, Lee SH, et al. Inhibition of acetylcholinesterases of the pinewood nematode, *Bursaphelenchus xylophilus*, by phytochemicals from plant essential oils. *Pestic Biochem Physiol.* 2013 Jan;105(1):50-6. PMID: 24238290.

Ferreira FM, Palmeira CM, Oliveira MM, et al. Nerolidol effects on mitochondrial and cellular energetics. *Toxicol In Vitro.* 2012 Mar;26(2):189-96. PMID: 22138475.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.