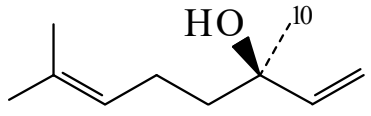
>>**Entry Name: 3,7-Dimethyl-1,6-octadien-3-ol**
ENTRY UNDER REVIEW
Synonym(s): Linalool. Linalol. Linalyl alcohol. Licareol. Coriandrol. β-Linalool. FEMA 2635



(*R*)-*form*

CAS Registry Number: 78-70-6
Related CAS Registry Numbers(s): 82928-12-9
Type of Compound Code(s): WE2000 XA1150 WE4500 XA2250 XA1400

Molecular Formula: $C_{10}H_{18}O$
Molecular Weight: 154.252
Accurate Mass: 154.135765
Percentage Composition: C 77.87%; H 11.76%; O 10.37%
Source/Synthesis: Prod. synthetically by several routes
Use/Importance: Spasmolytic agent. Used extensively in perfumery industry. Flavouring agent. Important intermed. in manuf. of α-Tocopherol BDR14-R. Possesses antimicrobial, anticonvulsant props.
Calculated Log P Data: Log P 2.55 (calc)
Other Data: Natural enantiomeric composition of the various esters of Linalool is mostly not well documented. The phys. props. are given here under the racemates but some props. may refer to opt. active samples
Hazard & Toxicity: Fl. p. 71/76°. Skin irritant. LD_{50} (rat, orl) 2790 mg/kg

Aldrich: W26351-6
Fluka: 62140
Sigma: L5255
Supelco: 48-2635

>>**Variant:** (*R*)-form

CAS Registry Number: 126-91-0
Type of Compound Code(s): WE2000 WE4500 VS0100 XA6300
Molecular Formula: $C_{10}H_{18}O$
Molecular Weight: 154.252
Accurate Mass: 154.135765
Percentage Composition: C 77.87%; H 11.76%; O 10.37%
Biological Source: Constit. of many essential oils including *Melissa officinalis* (lemon balm), rose, neroli and lavender. Major component of oil of *Mentha arvensis*
Biological Use/Importance: Shows sedative and antibacterial props.; active ingredient of herbal medicines containing lemon balm extracts
Physical Description: Oil
Boiling Point: Bp_{756} 197-200°
Optical Rotation: $[\alpha]_D^{20}$ –17
Calculated Log P Data: Log P 2.55 (calc)
Hazard & Toxicity: LD_{50} (mus, ivn) 180 mg/kg

Fluka: 62139

>>**Derivative:** 3-*O*-[α-L-Rhamnopyranosyl-(1→2)-glucopyranoside]
Synonym(s): Anatolioside

CAS Registry Number: 147612-75-7
Type of Compound Code(s): VS0100
Molecular Formula: $C_{22}H_{38}O_{10}$
Molecular Weight: 462.536
Accurate Mass: 462.2465
Percentage Composition: C 57.13%; H 8.28%; O 34.59%
Biological Source: Constit. of *Viburnum orientale*
Physical Description: Amorph. powder
Optical Rotation: $[\alpha]_D^{20}$ –31.4 (c, 0.29 in MeOH)