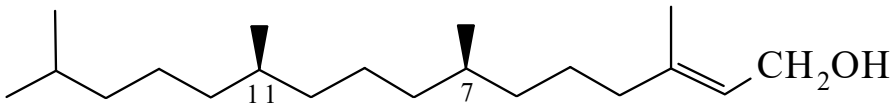
>>**Entry Name: 2-Phyten-1-ol**
ENTRY UNDER REVIEW
Synonym(s): 3,7,11,15-Tetramethyl-2-hexadecen-1-ol. **Phytol**



(2*E*,7*R*,11*R*)-*form*

CAS Registry Number: 7541-49-3

Molecular Formula: $C_{20}H_{40}O$
Molecular Weight: 296.535
Accurate Mass: 296.307915
Percentage Composition: C 81.01%; H 13.60%; O 5.40%
Use/Importance: Used in preparation of vitamins E and K

Aldrich: 13991-2
Sigma: P3647

>>**Variant:** (2*E*,7*R*,11*R*)-form

CAS Registry Number: 150-86-7

Molecular Formula: $C_{20}H_{40}O$
Molecular Weight: 296.535
Accurate Mass: 296.307915
Percentage Composition: C 81.01%; H 13.60%; O 5.40%
Biological Source: Constit. of nettles and other plants
Physical Description: Oil
Boiling Point: $Bp_{0.02}$ 132°
Optical Rotation: $[\alpha]_D^{18}$+0.2
UV: [neutral] λ_{max} 240 () (MeOH) (Berdy)
Hazard & Toxicity: Skin irritant. LD_{50} (rat, orl) >5000 mg/kg

Aldrich: W50220-0
Fluka: 80191
Sigma: P5378

>>**Derivative:** Heptanoyl
Synonym(s): Phytyl heptanoate

CAS Registry Number: 145613-68-9

Molecular Formula: $C_{27}H_{52}O_2$
Molecular Weight: 408.707
Accurate Mass: 408.39673
Percentage Composition: C 79.35%; H 12.82%; O 7.83%
Biological Source: Constit. of *Bidens pilosa* and *Rosa roxburghii*
Physical Description: Oil
Boiling Point: Bp 159°
Optical Rotation: $[\alpha]_D^{28}$–0.89 (EtOH)

>>**Derivative:** 5,8,11,14,17-Eicosapentaenoyl(*all-Z*)
Synonym(s): Phytyl 5,8,11,14,17-eicosapentaenoate

CAS Registry Number: 94035-77-5

Molecular Formula: $C_{40}H_{68}O_2$
Molecular Weight: 580.976
Accurate Mass: 580.52193
Percentage Composition: C 82.70%; H 11.80%; O 5.51%
Biological Source: Isol. from *Navicula delognei*
Biological Use/Importance: Antibacterial agent
Physical Description: Oil
Solubility: BERDY SOL: Sol. $CHCl_3$, hexane; poorly sol. H_2O