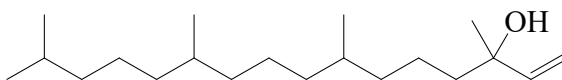




>>Entry Name: 1-Phyten-3-ol

Synonym(s): 3,7,11,15-Tetramethyl-1-hexadecen-3-ol



CAS Registry Number: 505-32-8

Related CAS Registry Numbers(s): 60046-87-9 80736-12-5

Molecular Formula: C₂₀H₄₀O

Molecular Weight: 296.535

Accurate Mass: 296.307915

Percentage Composition: C 81.01%; H 13.60%; O 5.40%

Biological Source: Constit. of *Laurencia pinnatifida*

Use/Importance: Intermed. in the synth. of vitamins A and E

Physical Description: Oil

Boiling Point: Bp_{0.06} 125-128°

Density: d₄²⁰ 0.852

Refractive Index: n_D²⁰ 1.4571

Fluka: 59229

>>Derivative: Semicarbazone

Melting Point: Mp 85.1°

>>Derivative: Ac

Molecular Formula: C₂₂H₄₂O₂

Molecular Weight: 338.573

Accurate Mass: 338.31848

Percentage Composition: C 78.05%; H 12.50%; O 9.45%

Boiling Point: Bp_{0.2} 140-142°

Refractive Index: n_D²⁵ 1.4488

References:

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Mandai, T. *et al.*, *Tet. Lett.*, 1981, **22**, 763, (*synth*)

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