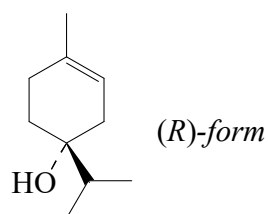




>>Entry Name: *p*-Menth-1-en-4-ol

ENTRY UNDER REVIEW

Synonym(s): 4-Methyl-1-(1-methylethyl)-3-cyclohexen-1-ol. 1-Isopropyl-4-methyl-3-cyclohexen-1-ol. 1-Terpinen-4-ol. 4-Carvomenthenol. Origanol. FEMA 2248



CAS Registry Number: 562-74-3

Molecular Formula: C<sub>10</sub>H<sub>18</sub>O

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Biological Source: Present in tea tree oil (*Melaleuca alternifolia*)

Use/Importance: Perfumery ingredient. Shows antibacterial and antifungal props. Tea tree oil is a widely used topical antiseptic

Hazard & Toxicity: Skin irritant. LD<sub>50</sub> (rat, orl) 1300 mg/kg

Aldrich: 21838-3

Fluka: 86479

Rare Chemicals Library: S40462-4

>>Variant: (*R*)-form

CAS Registry Number: 20126-76-5

Molecular Formula: C<sub>10</sub>H<sub>18</sub>O

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Biological Source: Isol. from *Eucalyptus dives*, *Xanthoxylum rhetsa* and other essential oils

Physical Description: Oil

Boiling Point: Bp 208-210°

Optical Rotation: [α]<sub>D</sub><sup>29</sup> −36 (c, 1.44 in EtOH)

>>Variant: (*S*)-form

CAS Registry Number: 2438-10-0

Molecular Formula: C<sub>10</sub>H<sub>18</sub>O

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Biological Source: Occurs in many essential oils, e.g. lavender, *Cupressus macrocarpa*

Physical Description: Oil

Boiling Point: Bp 208-210°

Optical Rotation: [α]<sub>D</sub><sup>11</sup> +24.5

>>Variant: (ξ)-form

Molecular Formula: C<sub>10</sub>H<sub>18</sub>O

Molecular Weight: 154.252

Accurate Mass: 154.135765

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

>>Derivative: Ac

CAS Registry Number: 4821-04-9

Molecular Formula: C<sub>12</sub>H<sub>20</sub>O<sub>2</sub>

Molecular Weight: 196.289

Accurate Mass: 196.14633

Percentage Composition: C 73.43%; H 10.27%; O 16.30%

Biological Source: Minor component of many essential oils