

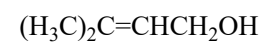


>>Entry Name: 3-Methyl-2-buten-1-ol

Synonym(s): Prenol. Isopentenol. Isopentenyl alcohol. Prenyl alcohol

CAS Registry Number: 556-82-1

Related CAS Registry Numbers(s): 100884-13-7



Molecular Formula: $\text{C}_5\text{H}_{10}\text{O}$

Molecular Weight: 86.133

Accurate Mass: 86.073165

Percentage Composition: C 69.72%; H 11.70%; O 18.58%

Biological Source: Constit. of ylang-ylang and hop oils

Physical Description: Oil

Boiling Point: Bp 137-138°

Hazard & Toxicity: Skin irritant. LD₅₀ (rat, orl) 810 mg/kg. LD₅₀ (rbt, skn) 3900 mg/kg

Aldrich: 16235-3

Fluka: 66093

Sigma: M4388

>>Derivative: O-β-D-Glucopyranoside

Synonym(s): Prenyl glucoside

CAS Registry Number: 117861-55-9

Molecular Formula: $\text{C}_{11}\text{H}_{20}\text{O}_6$

Molecular Weight: 248.275

Accurate Mass: 248.12599

Percentage Composition: C 53.22%; H 8.12%; O 38.67%

Biological Source: Isol. from *Citrus unshiu*

Physical Description: Needles (MeOH)

Melting Point: Mp 68-70°

Optical Rotation: $[\alpha]_{\text{D}}^{21} -23.6$ (c, 0.2 in MeOH)

>>Derivative: O-[α-L-Arabinopyranosyl-(1→6)-β-D-glucopyranoside]

CAS Registry Number: 175737-84-5

Molecular Formula: $\text{C}_{16}\text{H}_{28}\text{O}_{10}$

Molecular Weight: 380.391

Accurate Mass: 380.16825

Percentage Composition: C 50.52%; H 7.42%; O 42.06%

Biological Source: Constit. of the fruit of *Passiflora edulis* (Passifloraceae)

>>Derivative: O-[β-D-Apiofuranosyl-(1→6)-β-D-glucopyranoside]

CAS Registry Number: 198832-70-1

Molecular Formula: $\text{C}_{16}\text{H}_{28}\text{O}_{10}$

Molecular Weight: 380.391

Accurate Mass: 380.16825

Percentage Composition: C 50.52%; H 7.42%; O 42.06%

Biological Source: Constit. of a wine (*Vitis vinifera*) and *Bupleurum falcatum*

Physical Description: Powder

Optical Rotation: $[\alpha]_{\text{D}}^{26} -66.2$ (c, 2 in MeOH)

>>Derivative: Ac

Synonym(s): Isopentenyl acetate

CAS Registry Number: 1191-16-8