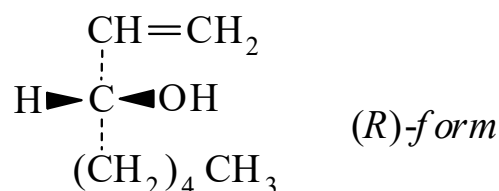




>>Entry Name: 1-Octen-3-ol, 9CI

ENTRY UNDER REVIEW

Synonym(s): Amyl vinyl carbinol. Matsutake alcohol. Matsutakeol. FEMA 3602. FEMA 2805



CAS Registry Number: 3391-86-4

Related CAS Registry Numbers(s): 2442-10-6 3687-48-7 24587-53-9 50999-79-6

Molecular Formula: C₈H₁₆O

Molecular Weight: 128.214

Accurate Mass: 128.120115

Percentage Composition: C 74.94%; H 12.58%; O 12.48%

Biological Source: Constit. of the defence secretions of *Leiobunum nigrispalpi*

Hazard & Toxicity: LD₅₀ (rat, orl) 340 mg/kg

Aldrich: W28051-8

Fluka: 74950

Supelco: 48-2805

>>Variant: (R)-form

Molecular Formula: C₈H₁₆O

Molecular Weight: 128.214

Accurate Mass: 128.120115

Percentage Composition: C 74.94%; H 12.58%; O 12.48%

Biological Source: Isol. from a number of essential oils, e.g. lavender, leek, mint and mushrooms

Use/Importance: Food odorant responsible for typical mushroom odour

Melting Point: Mp 175°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -18.4$ (neat) (c, 7.3 in EtOH)

>>Derivative: Ac

Synonym(s): FEMA 3582

Extra CAS Registry Numbers(s): 2442-10-6

Molecular Formula: C₁₀H₁₈O₂

Molecular Weight: 170.251

Accurate Mass: 170.13068

Percentage Composition: C 70.55%; H 10.66%; O 18.80%

Biological Source: Found in lavender oil; isol. from *Conocephalum japonicum*

Use/Importance: Used in perfumery. Flavouring agent

Physical Description: Liq. with lavender odour

Boiling Point: Bp 190°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +5.4$ (neat)

>>Derivative: Hydrogen phthalate

Melting Point: Mp 57°

>>Derivative: O-β-D-Glucopyranoside

CAS Registry Number: 209863-00-3

Extra CAS Registry Numbers(s): 74356-49-3

Molecular Formula: C₁₄H₂₆O₆

Molecular Weight: 290.356

Accurate Mass: 290.17294

Percentage Composition: C 57.91%; H 9.03%; O 33.06%

Biological Source: Constit. of spearmint (*Mentha spicata* var. *crispa*)

Optical Rotation: $[\alpha]_{\text{D}}^{21} +10$ (c, 0.5 in MeOH)