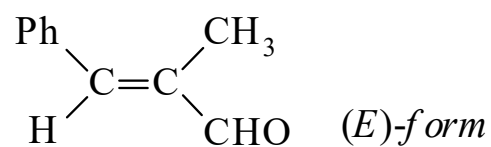




>>Entry Name: 2-Methyl-3-phenyl-2-propenal, 9CI

ENTRY UNDER REVIEW

Synonym(s): α -Methylcinnamaldehyde, 8CI. 2-Methyl-3-phenylacrolein. FEMA 2697



CAS Registry Number: 101-39-3

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

Molecular Weight: 146.188

Accurate Mass: 146.073165

Percentage Composition: C 82.16%; H 6.89%; O 10.94%

Biological Source: Present in peppermint oil (*Mentha piperita*)

Use/Importance: Perfumery and flavour ingredient

Physical Description: Yellow oil with cinnamon-like odour and spicy flavour

Hazard & Toxicity: Skin irritant. LD₅₀ (rat, orl) 2050 mg/kg

Aldrich: 11227-5

>>Variant: (E)-form

Synonym(s): *trans*-form

CAS Registry Number: 15174-47-7

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

Molecular Weight: 146.188

Accurate Mass: 146.073165

Percentage Composition: C 82.16%; H 6.89%; O 10.94%

Boiling Point: Bp₁₀₀ 150°. Bp₄ 97-99°

>>Derivative: Semicarbazone

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 209-210°

>>Derivative: 4-Nitrophenylhydrazone

Physical Description: Violet needles

Melting Point: Mp 203°

>>Variant: (Z)-form

Synonym(s): *cis*-form

CAS Registry Number: 66051-14-7

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

Molecular Weight: 146.188

Accurate Mass: 146.073165

Percentage Composition: C 82.16%; H 6.89%; O 10.94%

Other Data: Unstable, easily isomerises to (E)-form

References:

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