



>>Entry Name: 3-Penten-2-one, 9CI

ENTRY UNDER REVIEW

Synonym(s): Methyl propenyl ketone. FEMA 3417

CAS Registry Number: 625-33-2

$\text{H}_3\text{CCH=CHCOCH}_3$

Molecular Formula: $\text{C}_5\text{H}_8\text{O}$

Molecular Weight: 84.118

Accurate Mass: 84.057515

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Aldrich: W34170-3

Fluka: 77042

>>Variant: (E)-form

CAS Registry Number: 3102-33-8

Molecular Formula: $\text{C}_5\text{H}_8\text{O}$

Molecular Weight: 84.118

Accurate Mass: 84.057515

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Use/Importance: Reagent for Robinson annellations

Physical Description: Oil with fruity odour

Boiling Point: Bp 121.5-124°. Bp₂₆ 37°

Refractive Index: n_D²⁰ 1.4367

Hazard & Toxicity: Skin and eye irritant. LD₅₀ (rbt, skn) 500 mg/kg

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 155°

>>Derivative: Semicarbazone

Melting Point: Mp 142°

>>Variant: (Z)-form

CAS Registry Number: 3102-32-7

Molecular Formula: $\text{C}_5\text{H}_8\text{O}$

Molecular Weight: 84.118

Accurate Mass: 84.057515

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Physical Description: Oil

Boiling Point: Bp₇₄₀ 130° (111°)

Refractive Index: n_D²⁰ 1.4242

References:

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