



>>Entry Name: 2,6-Dimethyl-2,5-heptadien-4-one, 9CI

Synonym(s): Phorone

CAS Registry Number: 504-20-1

$(\text{H}_3\text{C})_2\text{C}=\text{CHCOCH}=\text{C}(\text{CH}_3)_2$

Molecular Formula: $\text{C}_9\text{H}_{14}\text{O}$

Molecular Weight: 138.209

Accurate Mass: 138.104465

Percentage Composition: C 78.21%; H 10.21%; O 11.58%

Physical Description: Yellowish-green prisms

Melting Point: Mp 28°

Boiling Point: Bp 197.2°. Bp₂₀ 87-89°

Hazard & Toxicity: Fl. p. 85° (oc)

Aldrich: 14923-3

Fluka: 79358

>>Derivative: Oxime

CAS Registry Number: 72538-98-8

Molecular Formula: $\text{C}_9\text{H}_{15}\text{NO}$

Molecular Weight: 153.224

Accurate Mass: 153.115364

Percentage Composition: C 70.55%; H 9.87%; N 9.14%; O 10.44%

Melting Point: Mp 48°

Boiling Point: Bp 218°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Red needles (MeOH)

Melting Point: Mp 118°

>>Derivative: Semicarbazone

Melting Point: Mp 221°

References:

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