



>>Entry Name: 1-Penten-3-one, 9CI

Synonym(s): Ethyl vinyl ketone. Propionylethylene. FEMA 3382

CAS Registry Number: 1629-58-9

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

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%

Use/Importance: Important synthetic intermed., esp. in annellation reactions for terpene ring construction. Flavour ingredient

Physical Description: Liq.

Boiling Point: Bp_{740} 102°. Bp_{90} 44°

Density: d_4^{20} 0.847

Refractive Index: n_D^{20} 1.4192

Other Data: Undergoes radical polym.

Hazard & Toxicity: Lachrymator

Aldrich: W33820-6

Fluka: 5020

Sigma: E5005

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 21454-46-6

Melting Point: Mp 125-127°

>>Derivative: Dimethylhydrazone

CAS Registry Number: 96546-66-6

Molecular Formula: $\text{C}_7\text{H}_{14}\text{N}_2$

Molecular Weight: 126.201

Accurate Mass: 126.115698

Percentage Composition: C 66.62%; H 11.18%; N 22.20%

Physical Description: Liq.

Boiling Point: Bp 139-141°

References:

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