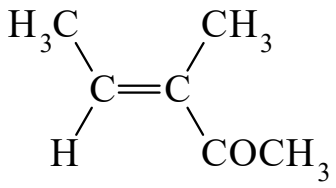
>>**Entry Name: 3-Methyl-3-penten-2-one,** 9Cl
Synonym(s): 2-Acetyl-2-butene



(*E*)-*form*

CAS Registry Number: 565-62-8

Molecular Formula: $C_6H_{10}O$
Molecular Weight: 98.144
Accurate Mass: 98.073165
Percentage Composition: C 73.43%; H 10.27%; O 16.30%
Boiling Point: Bp 138°. Bp_{85} 75°
pKa Value: pK_a –3.42 (H_2SO_4 aq.)
Refractive Index: n_D^{20} 1.4508

Fluka: 68567

>>**Variant:** (*E*)-form

CAS Registry Number: 1567-73-3
Molecular Formula: $C_6H_{10}O$
Molecular Weight: 98.144
Accurate Mass: 98.073165
Percentage Composition: C 73.43%; H 10.27%; O 16.30%
Physical Description: Liq.
Boiling Point: Bp 147° (125°)

>>**Derivative:** Oxime

CAS Registry Number: 16750-76-8
Molecular Formula: $C_6H_{11}NO$
Molecular Weight: 113.159
Accurate Mass: 113.084064
Percentage Composition: C 63.69%; H 9.80%; N 12.38%; O 14.14%
Physical Description: Needles
Melting Point: Mp 75-76°
Other Data: This deriv. (also semicarbazone and dinitrophenylhydrazone) assumed to be of the *E*-form

>>**Derivative:** Semicarbazone

Physical Description: Needles
Melting Point: Mp 201°

>>**Derivative:** 2,4-Dinitrophenylhydrazone

Melting Point: Mp 200°

>>**Variant:** (*Z*)-form

CAS Registry Number: 1567-72-2
Molecular Formula: $C_6H_{10}O$
Molecular Weight: 98.144
Accurate Mass: 98.073165
Percentage Composition: C 73.43%; H 10.27%; O 16.30%
Physical Description: Liq.
Boiling Point: Bp 124°

References:

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