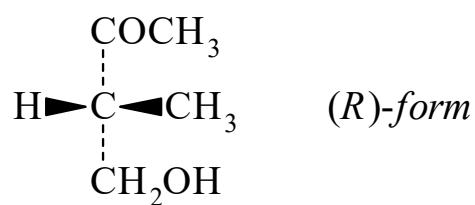




>>Entry Name: 4-Hydroxy-3-methyl-2-butanone, 9CI

Synonym(s): 2-Acetylpropanol



CAS Registry Number: 3393-64-4

Molecular Formula: $\text{C}_5\text{H}_{10}\text{O}_2$

Molecular Weight: 102.133

Accurate Mass: 102.06808

Percentage Composition: C 58.80%; H 9.87%; O 31.33%

Aldrich: 28148-4

>>Variant: (R)-form

Molecular Formula: $\text{C}_5\text{H}_{10}\text{O}_2$

Molecular Weight: 102.133

Accurate Mass: 102.06808

Percentage Composition: C 58.80%; H 9.87%; O 31.33%

Source/Synthesis: Obt. by degradation of Monocrotalic acid [DDN04-Q](#)

Physical Description: Not isol.

>>Variant: ($\pm$)-form

Molecular Formula: $\text{C}_5\text{H}_{10}\text{O}_2$

Molecular Weight: 102.133

Accurate Mass: 102.06808

Percentage Composition: C 58.80%; H 9.87%; O 31.33%

Physical Description: Oil

Boiling Point: Bp_{15} 90-95°

>>Derivative: Oxime

CAS Registry Number: 69125-01-5

Molecular Formula: $\text{C}_5\text{H}_{11}\text{NO}_2$

Molecular Weight: 117.147

Accurate Mass: 117.078979

Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%

Physical Description: Oil

Boiling Point: Bp_{20} 144°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 108-109°

References:

Landau, E.F. *et al.*, *J.O.C.*, 1947, **12**, 422, (*synth*)

Robins, D.J. *et al.*, *J.C.S.(C)*, 1969, 1386

Pinder, A.R. *et al.*, *J.O.C.*, 1974, **39**, 3061, (*synth*, *ir*, *pmr*)