



>>Entry Name: 3-Hydroxy-3-methylbutanal

Synonym(s): β -Hydroxyisovaleraldehyde. β -Methylacetaldol

CAS Registry Number: 39850-35-6

$(\text{H}_3\text{C})_2\text{C}(\text{OH})\text{CH}_2\text{CHO}$

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%

Biological Source: Prod. by *Blakeslea trispora*

Boiling Point: Bp_{13} 66-67°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 117-118°

>>Derivative: Di-Me acetal

Synonym(s): 4,4-Dimethoxy-2-methyl-2-butanol, 9CI

CAS Registry Number: 31525-67-4

Molecular Formula: $\text{C}_7\text{H}_{16}\text{O}_3$

Molecular Weight: 148.202

Accurate Mass: 148.109945

Percentage Composition: C 56.73%; H 10.88%; O 32.39%

Physical Description: Oil

Boiling Point: Bp_{14} 72-79°. $\text{Bp}_{4.2}$ 53-56°

Aldrich: W1038-7

References:

Fischer, F.G., *Ber.*, 1943, **76**, 734, (*synth*)

Crombie, L. *et al.*, *J.C.S.*, 1957, 2743, (*synth*)

Nabeta, K. *et al.*, *Phytochemistry*, 1980, **19**, 1133, (*isol, synth*)

Durrwachter, J.R. *et al.*, *J.O.C.*, 1988, **53**, 4175, (*synth, deriv, pmr*)