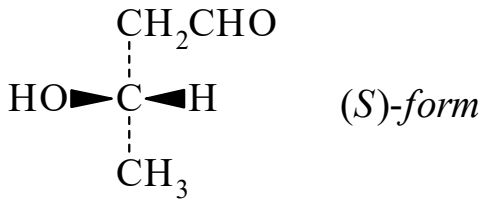
>>**Entry Name: 3-Hydroxybutanal,** 9CI
Synonym(s): β-Hydroxybutyraldehyde. Aldol. Acetaldol



(*S*)-*form*

CAS Registry Number: 107-89-1
Related CAS Registry Numbers(s): 39562-58-8

Molecular Formula: $C_4H_8O_2$
Molecular Weight: 88.106
Accurate Mass: 88.05243
Percentage Composition: C 54.53%; H 9.15%; O 36.32%
Hazard & Toxicity: Fl. p. 83/66° (oc), autoignition temp. 245/250°. Skin and eye irritant. LD_{50} (rat, orl) 2180 mg/kg. LD_{50} (rbt, skn) 140 mg/kg

Rare Chemicals Library: S42682-2

>>**Variant:** (*S*)-form
Molecular Formula: $C_4H_8O_2$
Molecular Weight: 88.106
Accurate Mass: 88.05243
Percentage Composition: C 54.53%; H 9.15%; O 36.32%

>>**Derivative:** Di-Me acetal

CAS Registry Number: 86146-07-8
Boiling Point: Bp_{25} 87°
Optical Rotation: $[\alpha]_D^{20}$ –13.1 (c, 1.1 in $CHCl_3$)

>>**Variant:** (±)-form

Molecular Formula: $C_4H_8O_2$
Molecular Weight: 88.106
Accurate Mass: 88.05243
Percentage Composition: C 54.53%; H 9.15%; O 36.32%
Physical Description: Syrupy liq.
Boiling Point: Bp_{20} 83°
Solubility: Misc. H_2O, EtOH
Density: d^{16} 1.11
Other Data: Dec. at 85° → 2-Butenal HHW33-L + H_2O

>>**Derivative:** Oxime

CAS Registry Number: 82521-17-3
Molecular Formula: $C_4H_9NO_2$
Molecular Weight: 103.121
Accurate Mass: 103.063329
Percentage Composition: C 46.59%; H 8.80%; N 13.58%; O 31.03%
Boiling Point: Bp_{11} 117-118°

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

CAS Registry Number: 18295-45-9
Melting Point: Mp 93-95°

>>**Derivative:** Ac

CAS Registry Number: 26391-36-6
Molecular Formula: $C_6H_{10}O_3$
Molecular Weight: 130.143
Accurate Mass: 130.062995
Percentage Composition: C 55.37%; H 7.74%; O 36.88%
Boiling Point: Bp_{18} 87-89°

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