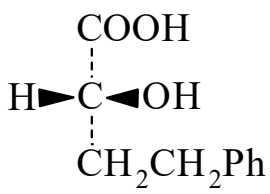
>>**Entry Name: 2-Hydroxy-4-phenylbutanoic acid**
Synonym(s): α-Hydroxybenzenebutanoic acid, 9CI. 3-Benzyllactic acid



(*R*)-*form*

CAS Registry Number: 4263-93-8

Molecular Formula: $C_{10}H_{12}O_3$
Molecular Weight: 180.203
Accurate Mass: 180.078645
Percentage Composition: C 66.65%; H 6.71%; O 26.64%

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

CAS Registry Number: 29678-81-7
Molecular Formula: $C_{10}H_{12}O_3$
Molecular Weight: 180.203
Accurate Mass: 180.078645
Percentage Composition: C 66.65%; H 6.71%; O 26.64%
Melting Point: Mp 114 subl.°
Optical Rotation: $[\alpha]_D$ +12.9
Aldrich: 42008-5
Fluka: 56112
Other: Kaneka I-3

>>**Derivative:** Et ester

CAS Registry Number: 90315-82-5
Molecular Formula: $C_{12}H_{16}O_3$
Molecular Weight: 208.257
Accurate Mass: 208.109945
Percentage Composition: C 69.21%; H 7.74%; O 23.05%
Physical Description: Liq.
Boiling Point: Bp_1 120°
Optical Rotation: $[\alpha]_D^{23}$ –20.8 (c, 1.0 in $CHCl_3$) (94% ee). $[\alpha]_D^{20}$ –21.7
Aldrich: 46082-6
Fluka: 56114

>>**Derivative:** Amide

Molecular Formula: $C_{10}H_{13}NO_2$
Molecular Weight: 179.218
Accurate Mass: 179.094629
Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%
Melting Point: Mp 124°
Optical Rotation: $[\alpha]_D^{21}$ +35.2 (EtOH)

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

Molecular Formula: $C_{10}H_{12}O_3$
Molecular Weight: 180.203
Accurate Mass: 180.078645
Percentage Composition: C 66.65%; H 6.71%; O 26.64%
Melting Point: Mp 114-116°
Optical Rotation: $[\alpha]_D^{27}$ –9.9

>>**Derivative:** Me ester

CAS Registry Number: 68844-69-9
Molecular Formula: $C_{11}H_{14}O_3$
Molecular Weight: 194.23
Accurate Mass: 194.094295
Percentage Composition: C 68.02%; H 7.26%; O 24.71%
Physical Description: Oil
Boiling Point: Bp_{11} 142-143°
Optical Rotation: [α] –22.3 (H_2O)