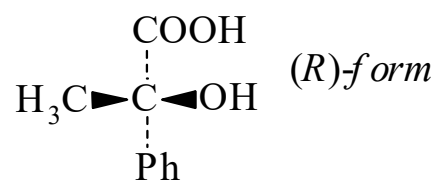




>>Entry Name: 2-Hydroxy-2-phenylpropanoic acid

Synonym(s):  $\alpha$ -Hydroxy- $\alpha$ -methylbenzeneacetic acid, 9CI.  $\alpha$ -Methylmandelic acid, 8CI. Atrolactic acid.  $\alpha$ -Hydroxyhydratropic acid. 2-Phenyllactic acid



CAS Registry Number: 515-30-0

Related CAS Registry Numbers(s): 2019-68-3 24190-10-1

Molecular Formula:  $\text{C}_9\text{H}_{10}\text{O}_3$

Molecular Weight: 166.176

Accurate Mass: 166.062995

Percentage Composition: C 65.05%; H 6.07%; O 28.88%

Aldrich: A9320-8

Fluka: 11310

Rare Chemicals Library: S31595-8

>>Variant: (R)-form

CAS Registry Number: 3966-30-1

Molecular Formula:  $\text{C}_9\text{H}_{10}\text{O}_3$

Molecular Weight: 166.176

Accurate Mass: 166.062995

Percentage Composition: C 65.05%; H 6.07%; O 28.88%

Melting Point: Mp 115-116°

Optical Rotation:  $[\alpha]_{\text{D}}^{13} -37.7$  (EtOH)

Solubility: Mod. sol.  $\text{H}_2\text{O}$

>>Derivative: Et ester

CAS Registry Number: 29916-14-1

Molecular Formula:  $\text{C}_{11}\text{H}_{14}\text{O}_3$

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<sub>12</sub> 127°

Optical Rotation:  $[\alpha]_{\text{D}}^{13} -26.7$

>>Derivative: Amide

Molecular Formula:  $\text{C}_9\text{H}_{11}\text{NO}_2$

Molecular Weight: 165.191

Accurate Mass: 165.078979

Percentage Composition: C 65.44%; H 6.71%; N 8.48%; O 19.37%

Melting Point: Mp 62.5-63.5°

Optical Rotation:  $[\alpha]_{\text{D}} +12.6$  (EtOH)

>>Variant: (S)-form

CAS Registry Number: 13113-71-8

Molecular Formula:  $\text{C}_9\text{H}_{10}\text{O}_3$

Molecular Weight: 166.176

Accurate Mass: 166.062995

Percentage Composition: C 65.05%; H 6.07%; O 28.88%

Melting Point: Mp 116-117°

Optical Rotation:  $[\alpha]_{\text{D}}^{16} +37.7$  (EtOH)