



>>Entry Name: **2,3-Dihydroxy-3,3-diphenylpropanoic acid**

Synonym(s): α,β -Dihydroxy- β -phenylbenzenepropanoic acid, 9CI. 3,3-Diphenylglyceric acid

$\text{Ph}_2\text{C}(\text{OH})\text{CH}(\text{OH})\text{COOH}$

Molecular Formula: $\text{C}_{15}\text{H}_{14}\text{O}_4$

Molecular Weight: 258.273

Accurate Mass: 258.08921

Percentage Composition: C 69.76%; H 5.46%; O 24.78%

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

Molecular Formula: $\text{C}_{15}\text{H}_{14}\text{O}_4$

Molecular Weight: 258.273

Accurate Mass: 258.08921

Percentage Composition: C 69.76%; H 5.46%; O 24.78%

Physical Description: Cryst. (EtOH or by subl.)

Melting Point: Mp 194-195° (177-178°) (dec.). Mp 194-195°

>>Derivative: Me ester

Molecular Formula: $\text{C}_{16}\text{H}_{16}\text{O}_4$

Molecular Weight: 272.3

Accurate Mass: 272.10486

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Physical Description: Cryst.

Melting Point: Mp 131-132°

>>Derivative: Et ester

CAS Registry Number: 5461-98-3

Molecular Formula: $\text{C}_{17}\text{H}_{18}\text{O}_4$

Molecular Weight: 286.327

Accurate Mass: 286.12051

Percentage Composition: C 71.31%; H 6.34%; O 22.35%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 130-131°

>>Derivative: Amide

Molecular Formula: $\text{C}_{15}\text{H}_{15}\text{NO}_3$

Molecular Weight: 257.288

Accurate Mass: 257.105194

Percentage Composition: C 70.02%; H 5.88%; N 5.44%; O 18.66%

Physical Description: Cryst. (EtOAc/petrol)

Melting Point: Mp 173-174°

>>Derivative: Nitrile

Molecular Formula: $\text{C}_{15}\text{H}_{13}\text{NO}_2$

Molecular Weight: 239.273

Accurate Mass: 239.094629

Percentage Composition: C 75.30%; H 5.48%; N 5.85%; O 13.37%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 97-98°

>>Derivative: 3-Me ether, Me ester

CAS Registry Number: 178306-47-3

Molecular Formula: $\text{C}_{17}\text{H}_{18}\text{O}_4$

Molecular Weight: 286.327

Accurate Mass: 286.12051

Percentage Composition: C 71.31%; H 6.34%; O 22.35%

Physical Description: Solid

Melting Point: Mp 90-92°

References: