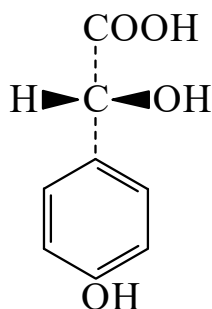




>>Entry Name: 2-Hydroxy-2-(4-hydroxyphenyl)acetic acid

Synonym(s): α ,4-Dihydroxybenzeneacetic acid, 9Cl. *p*-Hydroxymandelic acid, 8Cl. α ,4-Dihydroxyphenylacetic acid. 4-Hydroxyphenylglycollic acid. α ,4-Dihydroxy- α -toluic acid



(*R*)-form

CAS Registry Number: 1198-84-1

Related CAS Registry Numbers(s): 59845-69-1 68758-69-0 69322-01-6 69322-02-7 70013-61-5 78689-25-5 79694-14-7 82492-24-8 82492-25-9 82503-24-0

Molecular Formula: C₈H₈O₄

Molecular Weight: 168.149

Accurate Mass: 168.04226

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Fluka: 55530

>>Variant: (*R*)-form

Synonym(s): Pisolithin B

CAS Registry Number: 13244-78-5

Molecular Formula: C₈H₈O₄

Molecular Weight: 168.149

Accurate Mass: 168.04226

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Biological Source: Metab. of the fungus *Pisolithus tinctorius*

Physical Description: Cryst. + ½H₂O (H₂O)

Melting Point: Mp 102-103° (anhyd.)

Optical Rotation: [α]_D -144.4 (H₂O)

UV: [acid] $\lambda_{\max}$ 228 (); 274 () (HCl) (Berdy) [base] $\lambda_{\max}$ 248 () (NaOH) (Berdy)

Other Data: Readily isomerises during isoln.

>>Derivative: Nitrile, *O*- β -D-glucopyranoside

>>Derivative: 4-Me ether

Synonym(s): 2-Hydroxy-2-(4-methoxyphenyl)acetic acid. *p*-Methoxymandelic acid

CAS Registry Number: 20714-89-0

Use/Importance: Resolving agent

Physical Description: Cryst. + 2H₂O (H₂O)

Melting Point: Mp 104-105°

Optical Rotation: [α]_D¹⁶ -145.24

>>Variant: (*S*)-form

CAS Registry Number: 13244-75-2

Molecular Formula: C₈H₈O₄

Molecular Weight: 168.149

Accurate Mass: 168.04226

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Physical Description: Plates + 1H₂O (H₂O)

Melting Point: Mp 114-115°

Optical Rotation: [α]_D +154.7 (c, 1.36 in H₂O)

>>Derivative: Nitrile, *O*- β -D-glucopyranoside