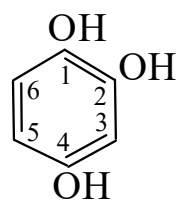




>>Entry Name: **1,2,4-Benzenetriol**, 9CI, 8CI

Synonym(s): 1,2,4-Trihydroxybenzene. Hydroxyhydroquinone. Hydroxyquinol



CAS Registry Number: 533-73-3

Molecular Formula: C₆H₆O₃

Molecular Weight: 126.112

Accurate Mass: 126.031695

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

Biological Source: Constit. of the sponge *Axinella polycapella*. Also isol. from the fruiting bodies of *Gomphidius* spp. Prod. by hydrothermal treatment of biomass carbohydrates

Use/Importance: Used as 1% aq. soln. for photometric detn. of Os

Biological Use/Importance: Antibacterial agent

Physical Description: Plates (Et₂O)

Melting Point: Mp 140.5 subl.°

Solubility: Sol. H₂O

pKa Value: pK_{a1} 9.08; pK_{a2} 11.82 (20°)

Hazard & Toxicity: LD₅₀ (mus, scu) 120 mg/kg

Aldrich: 17340-1

>>Derivative: Picrate

Physical Description: Orange-red needles

Melting Point: Mp 96°

>>Derivative: 1-*O*-(6-*O*-Benzoyl-β-D-allopyranoside)

Molecular Formula: C₁₉H₂₀O₉

Molecular Weight: 392.362

Accurate Mass: 392.110735

Percentage Composition: C 58.16%; H 5.14%; O 36.70%

Biological Source: Constit. of *Protea neriifolia*

Physical Description: Powder (EtOH/CHCl₃)

Optical Rotation: [α]_D²⁰ -61.3 (c. 1 in MeOH)

>>Derivative: 1-*O*-[(3-Hydroxy-3-phenylpropanoyl)-(→6)-β-D-allopyranoside]

Molecular Formula: C₂₁H₂₄O₁₀

Molecular Weight: 436.415

Accurate Mass: 436.13695

Percentage Composition: C 57.80%; H 5.54%; O 36.66%

Biological Source: Constit. of *Protea neriifolia*

Optical Rotation: [α]_D²⁵ -34.2 (c, 0.53 in MeOH)

>>Derivative: 1-*O*-(6-*O*-Benzoyl-β-D-glucopyranoside)

Molecular Formula: C₁₉H₂₀O₉

Molecular Weight: 392.362

Accurate Mass: 392.110735

Percentage Composition: C 58.16%; H 5.14%; O 36.70%

Biological Source: Constit. of *Protea neriifolia*

Physical Description: Powder (EtOH/CHCl₃)

Melting Point: Mp 189-190°

Optical Rotation: [α]_D²⁰ -48 (c, 1 in MeOH)