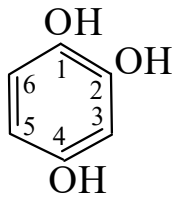
>>**Entry Name: 1,2,4-Benzenetriol,** 9CI, 8CI
Synonym(s): 1,2,4-Trihydroxybenzene. Hydroxyhydroquinone. Hydroxyquinol



CAS Registry Number: 533-73-3

Molecular Formula: $C_6H_6O_3$
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 (Et_2O)
Melting Point: Mp 140.5 subl.°
Solubility: Sol. H_2O
pKa Value: pK_{a1} 9.08; pK_{a2} 11.82 (20°)
Hazard & Toxicity: LD_{50} (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: $C_{19}H_{20}O_9$
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 ($EtOH/CHCl_3$)
Optical Rotation: $[\alpha]_D^{20}$ –61.3 (c. 1 in MeOH)

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

Molecular Formula: $C_{21}H_{24}O_{10}$
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: $[\alpha]_D^{25}$ –34.2 (c, 0.53 in MeOH)

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

Molecular Formula: $C_{19}H_{20}O_9$
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 ($EtOH/CHCl_3$)
Melting Point: Mp 189-190°
Optical Rotation: $[\alpha]_D^{20}$ –48 (c, 1 in MeOH)