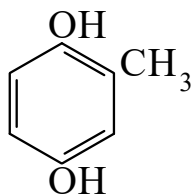




>>Entry Name: 2-Methyl-1,4-benzenediol, 9CI

Synonym(s): 2-Methylhydroquinone, 8CI. Methylquinol. Toluhydroquinone. 2,5-Dihydroxytoluene. Hydrotoluquinone



CAS Registry Number: 95-71-6

Molecular Formula: C₇H₈O₂

Molecular Weight: 124.139

Accurate Mass: 124.05243

Percentage Composition: C 67.73%; H 6.50%; O 25.78%

Biological Source: Metab. of *Lachnellula* sp.

Use/Importance: Polym. inhibitor. Comonomer for polyesters

Physical Description: Needles or plates (C₆H₆)

Melting Point: Mp 126-127°

Boiling Point: Bp 285°. Bp₁₁ 163°

pKa Value: pK_{a1} 10.05; pK_{a2} 11.62 (25°)

UV: [neutral] λ_{max} 203 (log ε 4.18); 216 (sh) (log ε 3.71); 226 (sh) (log ε 3.64); 293 (log ε 3.5) (MeOH)

Other Data: Sublimes

Hazard & Toxicity: Fl. p. 172° (oc), autoignition temp. 468°

Aldrich: 24097-4

Fluka: 89600

>>Derivative: 4-Ac

CAS Registry Number: 705-81-7

Molecular Formula: C₉H₁₀O₃

Molecular Weight: 166.176

Accurate Mass: 166.062995

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

Physical Description: Needles (petrol)

Melting Point: Mp 92°

>>Derivative: Di-Ac

CAS Registry Number: 717-27-1

Molecular Formula: C₁₁H₁₂O₄

Molecular Weight: 208.213

Accurate Mass: 208.07356

Percentage Composition: C 63.45%; H 5.81%; O 30.74%

Physical Description: Needles or prisms (H₂O, AcOH or petrol)

Melting Point: Mp 49°

>>Derivative: 1-O-β-D-Glucopyranoside

Synonym(s): Isohomoarbutin

CAS Registry Number: 25162-30-5

Molecular Formula: C₁₃H₁₈O₇

Molecular Weight: 286.281

Accurate Mass: 286.105255

Percentage Composition: C 54.54%; H 6.34%; O 39.12%

Biological Source: Isol. from *Chimaphila japonica*, *Pyrola incarnata* and *Pyrola nephrophylla*

Physical Description: Needles (MeOH)

Melting Point: Mp 175-176°

>>Derivative: 4-O-β-D-Glucopyranoside

Synonym(s): Homoarbutin

CAS Registry Number: 25712-94-1