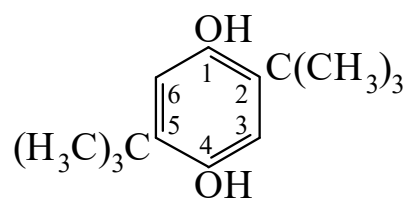




>>Entry Name: **2,5-Di-*tert*-butyl-1,4-benzenediol**

Synonym(s): 2,5-Bis(1,1-dimethylethyl)-1,4-benzenediol, 9Cl. 2,5-Di-*tert*-butylhydroquinone, 8Cl. Naugard 451. Dibug



CAS Registry Number: 88-58-4

Molecular Formula: C₁₄H₂₂O₂

Molecular Weight: 222.327

Accurate Mass: 222.16198

Percentage Composition: C 75.63%; H 9.97%; O 14.39%

Use/Importance: Antioxidant and stabiliser for polymers

Biological Use/Importance: Inhibits sarcoplasmic reticulum Ca²⁺-ATPase. Mobilises intracellular Ca²⁺ stores

Physical Description: Cryst. (cyclohexane)

Melting Point: Mp 219° (212°)

Aldrich: 11297-6

Fluka: 34710

Sigma: D8042

>>Derivative: Di-Ac

CAS Registry Number: 900-02-7

Molecular Formula: C₁₈H₂₆O₄

Molecular Weight: 306.401

Accurate Mass: 306.18311

Percentage Composition: C 70.56%; H 8.55%; O 20.89%

Physical Description: Cryst. (CHCl₃)

Melting Point: Mp 174.5° (172-173°)

>>Derivative: Mono-Me ether

Synonym(s): 2,5-Di-*tert*-butyl-4-methoxyphenol

CAS Registry Number: 1991-52-2

Molecular Formula: C₁₅H₂₄O₂

Molecular Weight: 236.353

Accurate Mass: 236.17763

Percentage Composition: C 76.23%; H 10.23%; O 13.54%

Physical Description: Cryst. (petrol)

Melting Point: Mp 101.5-103°

Aldrich: 44732-3

>>Derivative: Di-Me ether

Synonym(s): 1,4-Di-*tert*-butyl-2,5-dimethoxybenzene. 1,4-Bis(1,1-dimethylethyl)-2,5-dimethoxybenzene, 9Cl

CAS Registry Number: 7323-63-9

Molecular Formula: C₁₆H₂₆O₂

Molecular Weight: 250.38

Accurate Mass: 250.19328

Percentage Composition: C 76.75%; H 10.47%; O 12.78%

Melting Point: Mp 103-104°

Rare Chemicals Library: S66106-6

Other: PB D11548

References: