



>>Entry Name: 1,4-Bis(hydroxymethyl)benzene

Synonym(s): 1,4-Benzenedimethanol, 9CI. *p*-Xylene- α,α' -diol, 8CI. Terephthalyl alcohol. ψ -Dihydroxy-*p*-xylene

CAS Registry Number: 589-29-7

Molecular Formula: C₈H₁₀O₂

Molecular Weight: 138.166

Accurate Mass: 138.06808

Percentage Composition: C 69.55%; H 7.29%; O 23.16%

Use/Importance: Used in the manuf. of various types of polymer, including thermosetting arom. resins and polyamides

Physical Description: Cryst.

Melting Point: Mp 115-116°

Aldrich: B300-0

Fluka: 12573

>>Derivative: Mono-Me ether

Molecular Formula: C₉H₁₂O₂

Molecular Weight: 152.193

Accurate Mass: 152.08373

Percentage Composition: C 71.03%; H 7.95%; O 21.03%

Physical Description: Liq.

Boiling Point: Bp₁₆ 152°

>>Derivative: Mono-Me ether, Ac

Molecular Formula: C₁₁H₁₄O₃

Molecular Weight: 194.23

Accurate Mass: 194.094295

Percentage Composition: C 68.02%; H 7.26%; O 24.71%

Physical Description: Oil

Boiling Point: Bp₁₆ 150°

>>Derivative: Di-Me ether

Synonym(s): 1,4-Bis(methoxymethyl)benzene

CAS Registry Number: 6770-38-3

Molecular Formula: C₁₀H₁₄O₂

Molecular Weight: 166.219

Accurate Mass: 166.09938

Percentage Composition: C 72.26%; H 8.49%; O 19.25%

Use/Importance: Forms polymers with phenols and other arom. compds.

Physical Description: Liq.

Boiling Point: Bp 235°. Bp₁₈ 124°

References:

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Quelet, R., *Bull. Soc. Chim. Fr.*, 1933, **53**, 222, (*synth*)

Korshak, V.V. *et al.*, *Izv. Akad. Nauk Tadzh. SSR, Otd. Fiz.-Mat., Khim. Geol. Nauk*, 1959, 148; *CA*, **53**, 16033b, (*polyesters*)

Horner, L. *et al.*, *Annalen*, 1972, **757**, 69, (*synth*)

Otani, S. *et al.*, *J. Mater. Sci.*, 1986, **21**, 2027, (*arom resins*)

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