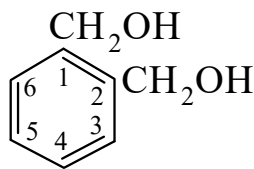




>>Entry Name: 1,2-Bis(hydroxymethyl)benzene

Synonym(s): 1,2-Benzenedimethanol, 9CI. *o*-Xylene- α,α' -diol, 8CI. Phthalyl alcohol. α,α' -Dihydroxy-*o*-xylene



CAS Registry Number: 612-14-6

Molecular Formula: $C_8H_{10}O_2$

Molecular Weight: 138.166

Accurate Mass: 138.06808

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

Use/Importance: Source of the *o*-xylylene acetal protecting group

Physical Description: Plates (Et_2O)

Melting Point: Mp 64.2-64.8°

Other Data: Several polyesters have been synth.

Aldrich: 18482-9

Fluka: 12570

>>Derivative: Di-Ac

CAS Registry Number: 14019-65-9

Molecular Formula: $C_{12}H_{14}O_4$

Molecular Weight: 222.24

Accurate Mass: 222.08921

Percentage Composition: C 64.85%; H 6.35%; O 28.80%

Physical Description: Cryst. (petrol)

Melting Point: Mp 37°. Mp 34-35°

>>Derivative: Di-Et ether

Molecular Formula: $C_{12}H_{18}O_2$

Molecular Weight: 194.273

Accurate Mass: 194.13068

Percentage Composition: C 74.19%; H 9.34%; O 16.47%

Physical Description: Oil

Boiling Point: Bp₇₃₈ 246-248°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1129B, (*ir*)

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 343B, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1054B, (*ir*)

Nystrom, R.F. *et al.*, *J.A.C.S.*, 1947, **69**, 1197-1199, (*synth*)

Vinogradova, S.V. *et al.*, *Vysokomol. Soedin.*, 1959, **1**, 649-654; *CA*, **54**, 19009e, (*polyesters*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 883-884, (*use*)

Anderson, W.K. *et al.*, *J. Het. Chem.*, 1990, **27**, 975-979, (*synth*, *ir*, *pmr*)

Org. Synth., Coll. Vol., 9, 1998, 251-257, (*synth*, *ir*, *pmr*, *cmr*)