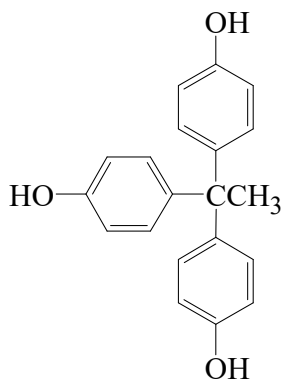




>>Entry Name: 4,4',4''-Ethylidynetrisphenol, 9CI

Synonym(s): 4,4',4''-Ethylidynetrisphenol, 8CI. 1,1,1-Tris(4-hydroxyphenyl)ethane



CAS Registry Number: 27955-94-8

Extra CAS Registry Numbers(s): 88900-09-8

Molecular Formula: C₂₀H₁₈O₃

Molecular Weight: 306.36

Accurate Mass: 306.125595

Percentage Composition: C 78.41%; H 5.92%; O 15.67%

Use/Importance: Important precursor for synth. of dendimers and dendritic (star-branched, hyperbranched) polymers; applications in heat-resistant compositions, photoresists, thermal recording materials and as hardeners for resins

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 246-248° (240-243°)

References:

Ger. Pat., 1968, 1 930 333; *CA*, **72**, 90049m, (*synth*)

Hawker, C.J. *et al.*, *Chem. Comm.*, 1990, 1010-1013, (*use*)

Wooley, K.L. *et al.*, *J.C.S. Perkin I*, 1991, 1059-1076, (*use*)

U.S. Pat., 1991, 4 992 598; *CA*, **115**, 28879k, (*synth, purifn*)

Hawker, C.J. *et al.*, *J.A.C.S.*, 1992, **114**, 8405-8413, (*use*)

Japan. Pat., 1994, 06 312 947; *CA*, **123**, 113995e, (*use*)

Ihre, H. *et al.*, *J.A.C.S.*, 1996, **118**, 6388-6395, (*use*)

Liu, H. *et al.*, *Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.)*, 1996, **37**, 147-148; *CA*, **125**, 256971w, (*use*)