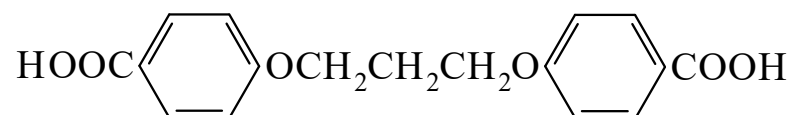




>>Entry Name: 4,4'-[1,3-Propanediylbis(oxy)]bisbenzoic acid

Synonym(s): 4,4'-(Trimethylenedioxy)dibenzoic acid. 1,3-Diphenoxypropane-*p,p'*-dicarboxylic acid



CAS Registry Number: 3753-81-9

Molecular Formula: C₁₇H₁₆O₆

Molecular Weight: 316.31

Accurate Mass: 316.09469

Percentage Composition: C 64.55%; H 5.10%; O 30.35%

Melting Point: Mp 332-334° (310-312°)

Solubility: Insol. H₂O

Rare Chemicals Library: S67194-0

>>Derivative: Polymer with decanedioic acid

Synonym(s): Polifeprosan, INN. Polifeprosan 20, USAN. PCPP-SA. Bidel

CAS Registry Number: 90409-78-2

Use/Importance: Biodegradable polyanhydride used as a drug-carrier matrix for controlled delivery applications

References:

McMillan, F.H., *J.A.C.S.*, 1952, **74**, 5229, (*synth*)

Donahoe, H.B. *et al.*, *J.O.C.*, 1961, **26**, 474, (*synth*)

Leong, K.W. *et al.*, *Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.)*, 1984, **25**, 201, (*synth, polifeprosan*)

Leong, K.W. *et al.*, *J. Biomed. Mater. Res.*, 1985, **19**, 941, (*use, polifeprosan*)

Domb, A.J. *et al.*, *Polym. Mater. Sci. Eng.*, 1986, **55**, 746, (*synth, polifeprosan*)

Ron, E. *et al.*, *Macromolecules*, 1991, **24**, 2278, (*pmr, cryst struct, polifeprosan*)

Tudor, A.M. *et al.*, *Spectrochim. Acta A*, 1991, **47**, 1335, (*polifeprosan, ir, Raman*)

Domb, A.J., *Macromolecules*, 1992, **25**, 12, (*synth, polifeprosan*)