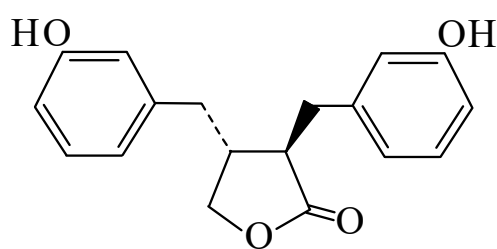




>>Entry Name: Enterolactone

ENTRY UNDER REVIEW

Synonym(s): Dihydro-3,4-bis(3-hydroxyphenyl)methyl-2(3*H*)-furanone, 9Cl. 4,5-Dihydro-2,3-bis(3-hydroxybenzyl)-2(3*H*)-furanone. 2,3-Bis(3-hydroxybenzyl)butyrolactone. HPMF



CAS Registry Number: 78473-71-9

Related CAS Registry Numbers(s): 76721-88-5

Type of Compound Code(s): VO0150

Molecular Formula: C₁₈H₁₈O₄

Molecular Weight: 298.338

Accurate Mass: 298.12051

Percentage Composition: C 72.47%; H 6.08%; O 21.45%

Biological Source: Isol. from mammalian urine, prod. of intestinal flora acting on lignans present in cereal

Physical Description: Gum

Optical Rotation: $[\alpha]_{\text{D}}^{20} -40.5$ (c, 0.62 in CHCl₃)

References:

Setchell, K.D.R. *et al.*, *Nature (London)*, 1980, **287**, 740, (*isol, struct, synth, ms, pmr*)

Setchell, K.D.R. *et al.*, *Biochem. J.*, 1981, **197**, 447, (*isol*)

Ganeshpure, P.A. *et al.*, *Chem. Ind. (London)*, 1981, 778, (*synth*)

Cooley, G. *et al.*, *Tet. Lett.*, 1981, 349, (*synth*)

Pelter, A. *et al.*, *Tet. Lett.*, 1981, 1549, (*synth*)

Axelson, M. *et al.*, *Nature (London)*, 1982, **298**, 659, (*isol*)

Mahalanabis, K.K. *et al.*, *Tet. Lett.*, 1982, **23**, 3975, (*synth*)

Kirk, D.N. *et al.*, *J.C.S. Perkin 1*, 1985, 35, (*synth*)

Bambagiotti-Alberti, M. *et al.*, *Heterocycles*, 1987, **26**, 1735, (*synth*)

Yoda, H. *et al.*, *Tetrahedron*, 1992, **48**, 3313, (*synth, bibl*)

van Oeveren, A. *et al.*, *J.O.C.*, 1994, **59**, 5999, (*synth*)

Srikrishna, A. *et al.*, *Indian J. Chem., Sect. B*, 1995, **35**, 679, (*synth*)

Chenevert, R. *et al.*, *Can. J. Chem.*, 1999, **77**, 223-226, (*synth*)