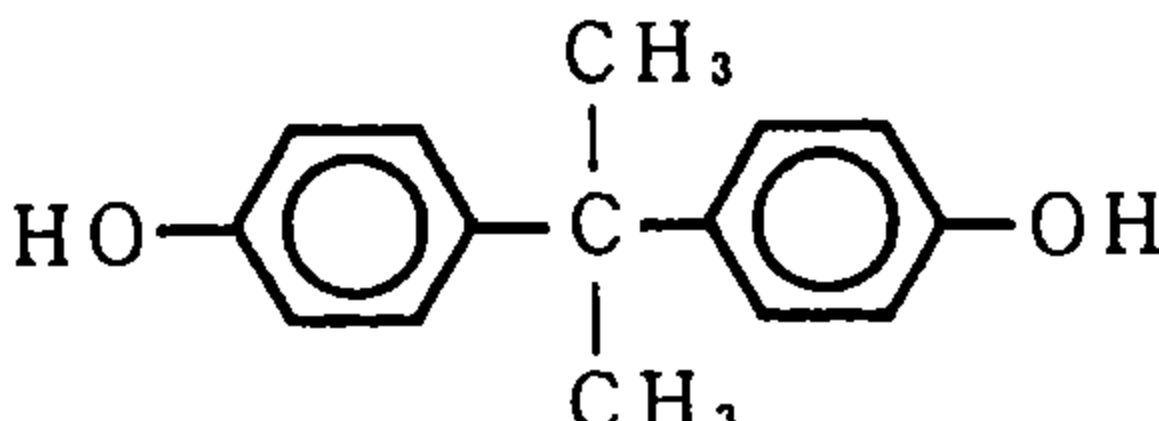


2,2-Bis(4-hydroxydiphenyl)propane (2,2-ビス(4-ヒドロキシフェニル)プロパン)

Experimental Data

Chemical Name: 2,2-Bis(4-hydroxydiphenyl)propane Synonym: 4,4'-Dihydroxydiphenyl-2,2-propane Bisphenol A Phenol, 4,4'-(1-methyl-ethylidene)bis-	Con. μg/ plate	Number of Revertants/plate									
		Base-substitution						Frame-shift			
		TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	
Molecular weight: 228.28 Melting point: 158~159°C Boiling point: 360.5°C, 220°C (14mmHg) Chemical Structure 	DSMO	(159)	(165)	(10)	(14)	(23)	(32)	(31)	(23)	(8)	(7)
		150	165	5	14	21	32	40	33	8	5
	5	(143)	(161)	(6)	(12)	(22)	(27)	(31)	(31)	(11)	(7)
		136	156	7	9	23	22	22	29	14	8
		135	170	7	6	15	26	36	32	11	8
	10	(142)	(175)	(9)	(8)	(15)	(26)	(30)	(28)	(13)	(8)
		148	179	11	9	15	25	24	23	15	8
		133	188	13	10	29	26	20	26	13	2
	20	(139)	(193)	(11)	(11)	(25)	(25)	(22)	(28)	(11)	(4)
		144	197	8	11	20	24	23	29	8	5
		141	183	13	18	18	28	26	26	11	8
	39	(157)	(182)	(11)	(15)	(21)	(29)	(25)	(27)	(11)	(8)
		173	181	9	11	23	30	23	28	10	7
		157	164	5	11	25	30	23	25	8	7
	78	(139)	(167)	(5)	(9)	(21)	(32)	(22)	(32)	(7)	(7)
		121	169	5	6	17	33	20	38	6	7
		57*	163	3*	14	21	28	0*	25	6*	8
	156	(64*)	(158)	(4*)	(14)	(20)	(26)	(0*)	(24)	(5*)	(9)
		70*	152	5*	14	18	23	0*	23	3*	10
		55*	84*	0*	3*	9*	25*	0*	23*	0*	5*
		60*	72*	0*	7*	7*	30*	0*	21*	0*	13*
	313	(58*)	(78*)	(0*)	(5*)	(8*)	(28*)	(0*)	(22*)	(0*)	(9*)
		0*	61*	0*	7*	9*	9*	0*	17*	0*	0*
		0*	76*	0*	5*	11*	13*	0*	15*	0*	0*
	625	(0*)	(69*)	(0*)	(6*)	(10*)	(11*)	(0*)	(16*)	(0*)	(0*)
		0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
		0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
	1250	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement		-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity											
Positive Control		AF2 (832)	2AA (954)	NaN ₃ (292)	2AA (182)	AF2 (226)	2AA 20 (1313)	AF2 (335)	2AA (415)	9AA (383)	2AA (173)

Experimental Data

Con. μg/ plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DSMO	(146)	(129)	(8)	(9)	(20)	(24)	(30)	(34)	(7)	(7)
	122		11				36		6	
	124		9				23		9	
5	(123)		(10)				(30)		(8)	
	148	121	8	8	31	33	22	36	10	13
	128	148	8	13	17	37	37	24	9	7
10	(138)	(135)	(8)	(11)	(24)	(35)	(30)	(30)	(10)	(10)
	152	131	7	15	20	33	30	33	8	6
	133	139	9	13	21	28	34	39	10	13
20	(143)	(135)	(8)	(14)	(21)	(31)	(32)	(36)	(9)	(10)
	139	155	8	7	13	28	34	36	13	5
	120	109	16	11	14	32	30	31	9	9
39	(130)	(132)	(12)	(9)	(19)	(30)	(32)	(34)	(11)	(7)
	121	171	7	9	18	24	21	30	7	7
	129	160	7	3	21	24	26	30	8	5
78	(125)	(166)	(7)	(6)	(20)	(24)	(24)	(30)	(8)	(6)
	70*	105	6*	13	22	17	0*	24	0*	8
	68*	130	7*	11	15	32	0*	22	0*	11
156	(69*)	(118)	(7*)	(12)	(19)	(25)	(0*)	(23)	(0*)	(10)
	54*	66*	0*	7*	11*	24	0*	0*	0*	5*
	0*	87*	0*	9*	8*	22	0*	0*	0*	6*
313	(27*)	(77*)	(0*)	(8*)	(10*)	(23)	(0*)	(0*)	(0*)	(6*)
		0*		0*	0*	14*		0*		0*
		57*		0*	0*	0*		0*		0*
625		(29*)		(0*)	(0*)	(7*)		(0*)		(0*)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF2 (760)	2AA (852)	NaN ₃ (269)	2AA (170)	AF2 (209)	2AA 20 (1421)	AF2 (369)	2AA (454)	9AA (544)	2AA (162)