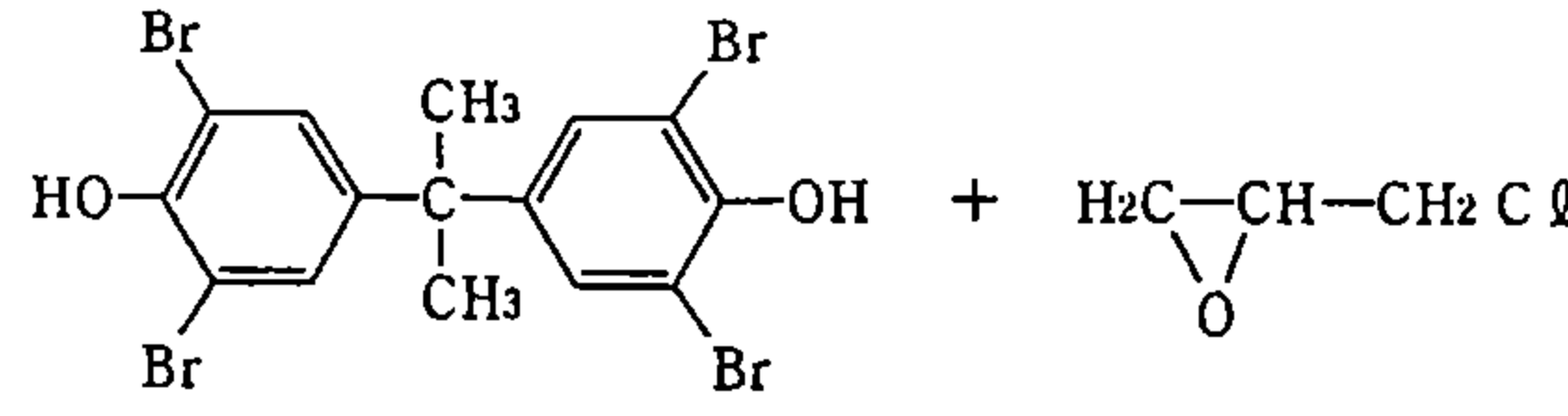


Epoxy resin intermediate (reaction product of 4,4'-(1-methylethylidene)
bis(2,6-dibromophenol) and chloromethyloxirane)
(臭素化ビスフェノールA型エポキシ樹脂中間体)

Chemical Name: Epoxy resin intermediate (reaction product of 4,4'-(1-methylethylidene) bis(2,6-dibromophenol) and chloromethyloxirane)	Con. μg/ plate	Experimental Data									
		Number of Revertants/plate						Frame-shift			
		Base-substitution		TA100		TA1535		WP2uvrA		TA98	
		S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
Molecular weight: number average 790(n=0:656)	DSMO	(140)	(139)	(10)	(18)	(17)	(17)	(14)	(20)	(11)	(9)
Melting point: °C		134	149	18	22	20	27	21	22	8	5
Boiling point: °C		129	126	10	16	13	17	9	22	6	10
Chemical Structure	0.305	(132)	(138)	(14)	(19)	(17)	(22)	(15)	(22)	(7)	(8)
	1.22	(160)	(124)	(19)	(11)	(18)	(19)	(17)	(18)	(8)	(6)
			158	138	12	18	28	25	22	20	9
CAS No : (40039-93-8)	4.88	(167)	(125)	(9)	(13)	(21)	(24)	(16)	(19)	(6)	(5)
MITI NO: (7)-1288		147	123	16	14	15	23	17	12	8	3
Source of Substance:		143	172	10	9	16	22	23	15	9	6
Lot.No. :	19.5	(145)	(148)	(13)	(12)	(16)	(23)	(20)	(14)	(9)	(5)
Purity: %		117	134	16	20	13	27	20	14	7	10
Vehicle:		124	128	15	9	21	20	17	21	3	5
*Mutagenicity	78.1	(121)	(131)	(16)	(15)	(17)	(24)	(19)	(18)	(5)	(8)
in Bacterial Test : Negative		168	108	9	15	22	30	15	28	6	10
*IARC Overall Evaluation : not yet cited		127	125	5	15	13	22	17	29	9	11
	313*	(148)	(117)	(7)	(15)	(18)	(26)	(16)	(29)	(8)	(11)
		120	139	14	11	18	22	9	26	4	5
		104	123	6	16	17	10	13	23	9	8
	1250*	(112)	(131)	(10)	(14)	(18)	(16)	(11)	(25)	(7)	(7)
		116	114	9	11	14	10	15	19	7	5
		97	108	12	13	19	15	16	17	4	9
	5000*	(107)	(111)	(11)	(12)	(17)	(13)	(16)	(18)	(6)	(7)
		75	105	11	17	29	19	9	12	7	8
		112	135	11	14	14	13	11	16	7	7
	10000*	(94)	(120)	(11)	(16)	(22)	(16)	(10)	(14)	(7)	(8)
Judgement		—	—	—	—	—	—	—	—	—	—
Specific mutagenicity											
Positive		AF2	2AA	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA
Control		(798)	(885)	(290)	(272)	(218)	(446)	(316)	(323)	(262)	(207)

* : Substances in this concentration were markedly precipitated.

		Experimental Data									
Con.		Number of Revertants/plate									
μ g/ plate	Con.	Base-substitution						Frame-shift			
		TA100		TA1535		WP2uvrA		TA98		TA1537	
		S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	DSMO	(93)	(123)	(11)	(10)	(19)	(25)	(8)	(11)	(5)	(9)
		155	127	5	15	13	17	10	15	6	10
		142	129	10	10	17	19	11	14	6	16
	156	(149)	(128)	(8)	(13)	(15)	(18)	(11)	(15)	(6)	(13)
		92	108	6	8	18	27	13	18	5	17
		116	124	12	13	12	28	14	16	7	11
	313*	(104)	(116)	(9)	(11)	(15)	(28)	(14)	(17)	(6)	(14)
		83	117	11	17	20	25	11	9	2	12
		104	127	6	9	20	28	11	17	9	10
	625*	(94)	(122)	(9)	(13)	(20)	(27)	(11)	(13)	(6)	(11)
		105	95	8	7	19	18	9	12	5	6
		125	116	7	15	12	20	9	9	8	7
	1250*	(115)	(106)	(8)	(11)	(16)	(19)	(9)	(11)	(7)	(7)
		136	98	8	9	10	20	10	8	4	6
		116	114	15	15	15	25	6	7	8	8
	2500*	(126)	(106)	(12)	(12)	(13)	(23)	(8)	(8)	(6)	(7)
		110	97	11	15	17	13	8	8	8	5
		113	114	7	11	24	10	9	7	5	5
	5000*	(112)	(106)	(9)	(13)	(21)	(12)	(9)	(8)	(7)	(5)
		85	123	9	9	14	22	8	8	12	7
		106	97	11	9	10	21	8	12	7	7
	10000*	(96)	(110)	(10)	(9)	(12)	(22)	(8)	(10)	(10)	(7)
Judgement		—	—	—	—	—	—	—	—	—	—
Specific mutagenicity											
Positive		AF2	2AA	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA
Control		(660)	(874)	(283)	(292)	(198)	(750)	(303)	(238)	(249)	(153)

* : Substances in this concentration were markedly precipitated.

Experimental Data						
Con. μ g/ plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
DSMO	(406)	(516)	(282)	(304)	(139)	(199)
	372	428	286	355	129	168
	320	439	307	371	119	197
0.305	(346)	(434)	(297)	(363)	(124)	(183)
	336	521	307	319	157	170
	395	453	318	392	134	193
1.22	(366)	(487)	(313)	(356)	(146)	(182)
	375	465	259	309	175	202
	378	466	261	340	148	214
4.88	(377)	(466)	(260)	(325)	(162)	(208)
	390	446	281	370	145	216
	381	429	310	387	160	187
19.5	(386)	(438)	(296)	(379)	(153)	(202)
	415	467	276	313	139	216
	390	395	262	354	121	227
78.1	(403)	(431)	(269)	(334)	(130)	(222)
	398	412	281	311	109	222
	410	420	286	373	128	198
313*	(404)	(416)	(284)	(342)	(119)	(210)
	438	364	264	324	116	171
	384	402	242	321	128	186
1250*	(411)	(383)	(253)	(323)	(122)	(179)
	432	416	237	336	121	155
	374	402	234	317	127	158
5000*	(403)	(409)	(236)	(327)	(124)	(157)
	346	414	265	283	95	158
	308	396	271	271	121	172
10000*	(327)	(405)	(268)	(277)	(108)	(165)
Judgement	—	—	—	—	—	—
Specific mutagenicity						
Positive	BLM	2AA	PA	2AA	AF2	2AA
Control	(980)	(1710)	(2816)	(1473)	(2639)	(795)

* : Substances in this concentration were markedly precipitated.

Experimental Data						
Con. μ g/ plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
DSMO	(294)	(386)	(251)	(348)	(94)	(155)
	352	368	184	274	106	178
	326	400	180	242	120	164
156	(339)	(384)	(182)	(258)	(113)	(171)
	364	430	212	252	114	182
	410	368	190	264	90	166
313*	(387)	(399)	(201)	(258)	(102)	(174)
	256	412	230	240	102	160
	272	356	232	258	102	142
625*	(264)	(384)	(231)	(249)	(102)	(151)
	366	360	238	252	94	168
	274	376	234	342	100	168
1250*	(320)	(368)	(236)	(297)	(97)	(168)
	344	316	216	252	104	155
	324	268	254	334	92	137
2500*	(334)	(292)	(235)	(293)	(98)	(146)
	258	216	256	298	94	150
	300	236	234	318	90	146
5000*	(279)	(226)	(245)	(308)	(92)	(148)
	326	306	231	310	106	148
	324	284	206	296	106	150
10000*	(325)	(295)	(219)	(303)	(106)	(149)
Judgement	-	-	-	-	-	-
Specific mutagenicity						
Positive	BLM	2AA	PA	2AA	AF2	2AA
Control	(650)	(1554)	(1822)	(1276)	(1721)	(745)

* : Substances in this concentration were markedly precipitated.

Experimental Data

Con. μ g/ plate	Number of Revertants/plate			
	Base- substitution		Frame-shift	
	TA100		TA1537	
	S9- ()	S9+ ()	S9- ()	S9+ ()
<u>DSMO</u>	(141)	(130)	(12)	(14)
	145	121		
	136	125		
<u>78.1</u>	(141)	(123)		
	150	141	10	12
	128	127	6	10
<u>156</u>	(139)	(134)	(8)	(11)
	115	139	8	15
	130	127	8	7
<u>313*</u>	(123)	(133)	(8)	(11)
	142	137	7	12
	123	138	9	13
<u>625*</u>	(133)	(138)	(8)	(13)
	104	114	5	17
	108	125	8	7
<u>1250*</u>	(106)	(120)	(7)	(12)
	133	114	12	15
	133	98	10	10
<u>2500*</u>	(133)	(106)	(11)	(13)
	111	122	8	9
	121	88	7	7
<u>5000*</u>	(116)	(105)	(8)	(8)
	132	103	10	5
	112	77	7	14
<u>10000*</u>	(122)	(90)	(9)	(10)
Judgement	—	—	—	—
Specific mutagenicity				
Positive	AF2	2AA	9AA	2AA
Control	(705)	(1066)	(448)	(226)

* : Substances in this concentration were markedly precipitated.