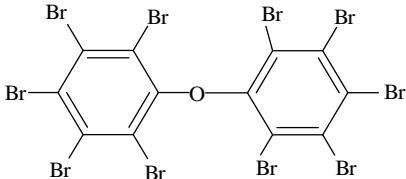


Chemical Name	: <u>Decabromodiphenyl ether</u>
Synonym	: <u>Bis(pentabromophenyl) ether</u> <u>1,1'-Oxybis[2,3,4,5,6-</u> <u>pentabromobenzene]</u> <u>1,1'-オキシビス[2,3,4,5,6-</u> <u>ペンタブロモベンゼン]</u>
Molecular Weight	: 959.17
Melting Point	: >300°C[Aldrich]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C ₁₂ Br ₁₀ O
Chemical Structure	
CAS No.	: 1163-19-5
MITI No.	: (3)-2846
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: AX01
Purity	: >98%
Vehicle	: DMSO

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; Group 3

Conc. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(128)	(140)	(10)	(10)	(49)	(62)	(15)	(26)	(8)	(9)
0 .610	142 135 (139)	151 155 (153)	11 13 (12)	10 14 (12)	37 54 (46)	68 71 (70)	15 15 (15)	16 24 (20)	6 6 (6)	13 16 (15)
2 .44	117 130 (124)	160 146 (153)	6 10 (8)	14 15 (15)	41 49 (45)	61 77 (69)	14 11 (13)	22 23 (23)	3 2 (3)	11 10 (11)
9 .77	138 104 (121)	141 121 (131)	6 11 (9)	15 13 (14)	48 53 (51)	68 101 (85)	18 11 (15)	14 17 (16)	6 5 (6)	13 13 (13)
39 .1	135 123 (129)	157 148 (153)	6 8 (7)	9 9 (9)	57 37 (47)	75 94 (85)	17 14 (16)	18 22 (20)	5 6 (6)	7 8 (8)
156	135 131 (133)	139 149 (144)	10 11 (11)	11 14 (13)	68 68 (68)	81 75 (78)	24 14 (19)	17 25 (21)	9 7 (8)	11 14 (13)
625 †	131 118 (125)	135 144 (140)	8 6 (7)	16 12 (14)	48 55 (52)	72 75 (74)	13 13 (13)	21 25 (23)	8 6 (7)	10 6 (8)
2500 †	130 115 (123)	151 154 (153)	7 8 (8)	8 15 (12)	60 53 (57)	88 64 (76)	13 6 (10)	29 19 (24)	4 8 (6)	4 11 (8)
10000 †	139 117 (128)	160 145 (153)	6 7 (7)	13 7 (10)	50 57 (54)	74 74 (74)	14 17 (16)	26 20 (23)	5 12 (9)	11 7 (9)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (747)	2-AA (1447)	NaN ₃ (452)	2-AA (308)	AF-2 (1244)	2-AA (967)	AF-2 (462)	2-AA (434)	9-AA (498)	2-AA (219)

† Test chemical was precipitated with and without S9mix.

Experimental Data-2

(B9816-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(118)	(145)	(8)	(10)	(38)	(55)	(19)	(23)	(8)	(9)
156	151	133	6	8	31	54	18	21	5	7
	128	145	5	14	34	60	11	30	3	11
	(140)	(139)	(6)	(11)	(33)	(57)	(15)	(26)	(4)	(9)
313	117	151	11	10	34	54	13	13	5	11
	137	156	8	11	36	47	16	21	5	10
	(127)	(154)	(10)	(11)	(35)	(51)	(15)	(17)	(5)	(11)
625 †	152	169	5	10	32	43	11	30	4	9
	120	146	4	15	36	37	15	24	4	9
	(136)	(158)	(5)	(13)	(34)	(40)	(13)	(27)	(4)	(9)
1250 †	130	143	4	12	35	38	12	20	3	9
	147	160	8	9	25	42	10	17	4	8
	(139)	(152)	(6)	(11)	(30)	(40)	(11)	(19)	(4)	(9)
2500 †	122	166	5	13	29	52	12	18	8	10
	141	132	10	11	36	43	10	24	3	5
	(132)	(149)	(8)	(12)	(33)	(48)	(11)	(21)	(6)	(8)
5000 †	112	148	8	8	31	47	9	17	5	4
	125	143	6	11	36	49	22	19	3	7
	(119)	(146)	(7)	(10)	(34)	(48)	(16)	(18)	(4)	(6)
10000 †	139	143	3	7	34	45	17	25	4	8
	133	147	9	11	23	51	14	20	5	6
	(136)	(145)	(6)	(9)	(29)	(48)	(16)	(23)	(5)	(7)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (688)	2-AA (1484)	NaN ₃ (394)	2-AA (309)	AF-2 (861)	2-AA (737)	AF-2 (375)	2-AA (442)	9-AA (584)	2-AA (188)