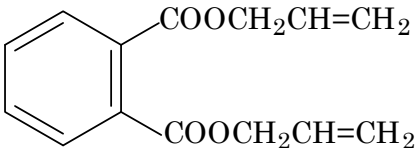


Chemical Name	: Diallyl phthalate
Synonym	: <u>1,2-Benzenedicarboxylic acid di-2-propenyl ester</u> <u>Phthalic acid, diallyl ester</u> フタル酸ジアリル
Molecular Weight	: 246.26
Melting Point	: -70°C[CHCD]
Boiling Point	: 165-167°C[Aldrich]
Flashing Point	: >110°C[Aldrich]
Molecular Formula	: C ₁₄ H ₁₄ O ₄
Chemical Structure	
CAS No.	: 131-17-9
MITI No.	: (3)-1325
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: GD01
Purity	: 98%
Vehicle	: DMSO

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 _{uvrA} /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(136)	(146)	(9)	(9)	(63)	(91)	(21)	(30)	(6)	(9)
1 .22	124 106 (115)	143 156 (150)	5 7 (6)	9 13 (11)	57 59 (58)	109 94 (102)	24 21 (23)	18 28 (23)	2 5 (4)	6 5 (6)
4 .88	101 142 (122)	164 141 (153)	7 7 (7)	15 10 (13)	66 64 (65)	101 104 (103)	17 14 (16)	29 26 (28)	5 6 (6)	13 7 (10)
19 .5	117 114 (116)	165 151 (158)	8 6 (7)	8 10 (9)	70 60 (65)	98 85 (92)	20 14 (17)	30 26 (28)	5 3 (4)	8 2 (5)
78 .1	131 127 (129)	145 144 (145)	7 7 (7)	10 6 (8)	71 64 (68)	99 98 (99)	20 20 (20)	28 24 (26)	5 5 (5)	5 8 (7)
313	0 * 0 * (0 *)	104 106 (105)	0 * 0 * (0 *)	13 13 (13)	33 * 40 * (37 *)	94 99 (97)	13 * 14 * (14 *)	21 23 (22)	0 * 0 * (0 *)	6 7 (7)
1250	0 * 0 * (0 *)	43 * 51 * (47 *)	0 * 0 * (0 *)	3 * 5 * (4 *)	28 * 31 * (30 *)	91 94 (93)	13 * 9 * (11 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	3 * 2 * (3 *)
5000	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	11 * 18 * (15 *)	155 123 (139)	8 * 10 * (9 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (735)	2-AA (1354)	NaN ₃ (485)	2-AA (343)	AF-2 (1467)	2-AA (1094)	AF-2 (570)	2-AA (460)	9-AA (574)	2-AA (227)

Mutagenicity in Bacterial Test ; Negative

* Growth inhibition was observed.

IARC Evaluation ; not yet cited

Experimental Data-2

(B9718-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(130)	(137)	(8)	(10)	(50)	(90)	(15)	(25)	(9)	(10)
	142		9		38		14		6	
4 .88	141 (142)		3 (6)		57 (48)		6 (10)		10 (8)	
	133		8		41		18		13	
9 .77	156 (145)		7 (8)		66 (54)		15 (17)		6 (10)	
	136	144	7	9	53		11	18	13	9
19 .5	120 (128)	139 (142)	8 (8)	8 (9)	52 (53)		20 (16)	28 (23)	3 (8)	8 (9)
	134	171	9	8	61		11	33	8	7
39 .1	145 (140)	166 (169)	8 (9)	10 (9)	38 (50)		16 (14)	20 (27)	3 (6)	14 (11)
	114	143	11	7	51	67	15	23	5	11
78 .1	139 (127)	174 (159)	13 (12)	8 (8)	56 (54)	81 (74)	20 (18)	28 (26)	7 (6)	10 (11)
	113 *	145	7 *	7	45	84	20	23	6 *	3
156	129 * (121 *)	123 (134)	7 * (7 *)	10 (9)	39 (42)	77 (81)	16 (18)	17 (20)	2 * (4 *)	8 (6)
	81 *	113	8 *	8	37 *	83	16 *	22	7 *	5
313	90 * (86 *)	134 (124)	9 * (9 *)	9 (9)	30 * (34 *)	83 (83)	17 * (17 *)	21 (22)	1 * (4 *)	6 (6)
		94		7		92		8 *		6
625		97 (96)		6 (7)		89 (91)		7 * (8 *)		8 (7)
		40 *		2 *		97		0 *		3 *
1250		69 * (55 *)		8 * (5 *)		119 (108)		0 * (0 *)		2 * (3 *)
						131				
2500						144 (138)				
						146				
5000						122 (134)				
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (740)	2-AA (1472)	NaN ₃ (474)	2-AA (339)	AF-2 (1617)	2-AA (1224)	AF-2 (504)	2-AA (462)	9-AA (673)	2-AA (240)