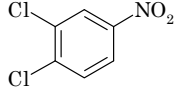


Experimental Data-1

(B9910-1/2)

1,2-Dichloro-4-nitrobenzene (1,2-ジクロロ-4-ニトロベンゼン)

Chemical Name	: 1,2-Dichloro-4-nitrobenzene
Synonym	: 3,4-Dichloronitrobenzene 3,4-Dichloro-1-nitrobenzene
Molecular Weight	: 192.00
Melting Point	: 42-43 °C[CHCD]
Boiling Point	: 255-256 °C[CHCD]
Flashing Point	: 123.9°C[Aldrich]
Molecular Formula	: C <sub>6</sub> H <sub>3</sub> Cl <sub>2</sub> NO <sub>2</sub>
Chemical Structure:	
CAS No.	: 99-54-7
METI No.	: (3)-455
MHLW No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: FFW01-CH
Purity	: 96%
Vehicle	: DMSO

Mutagenicity in Bacterial Test: Positive

IARC Evaluation : not yet cited

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		( 106 )	( 117 )	( 11 )	( 12 )	( 72 )	( 103 )	( 16 )	( 23 )	( 4 )
1 .22	114	185	9	14	48	113	14	24	6	8
	92	160	9	16	52	109	17	20	6	10
4 .88	( 103 )	( 173 )	( 9 )	( 15 )	( 50 )	( 111 )	( 16 )	( 22 )	( 6 )	( 9 )
	130	181	11	20	75	123	9	16	5	6
19 .5	128	195	9	10	72	89	18	21	2	3
	( 129 )	( 188 )	( 10 )	( 15 )	( 74 )	( 106 )	( 14 )	( 19 )	( 4 )	( 5 )
78 .1	151	316	21	13	74	90	18	30	3	13
	153	293	14	20	67	87	17	29	1	11
313	( 152 )	( 305 )	( 18 )	( 17 )	( 71 )	( 89 )	( 18 )	( 30 )	( 2 )	( 12 )
	305	446	13	14	61	89	29	45	8	14
1250	287	407	11	18	68	84	32	18	2	10
	( 296 )	( 427 )	( 12 )	( 16 )	( 65 )	( 87 )	( 31 )	( 32 )	( 5 )	( 12 )
5000	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)
Judgement	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)
Specific Mutagenicity	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)
Positive Control	+	+	-	-	-	-	-	-	-	-
	2430	9640								
AF-2	AF-2	2-AA	NaN <sub>3</sub>	2-AA	AF-2	2-AA	AF-2	2-AA	9-AA	2-AA
	( 760 )	( 1105 )	( 424 )	( 263 )	( 1206 )	( 932 )	( 498 )	( 391 )	( 375 )	( 228 )

\* Growth inhibition was observed.

Experimental Data-2

(B9910-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	( 119 )	( 129 )	( 10 )	( 10 )	( 55 )	( 105 )	( 17 )	( 22 )	( 8 )	( 8 )
4 .88	124	226	6	5	68	94	17	30	5	13
	( 124 )	( 234 )	( 8 )	( 6 )	( 70 )	( 97 )	( 16 )	( 29 )	( 6 )	( 12 )
9 .77	106	272	10	5	77	89	20	23	10	9
	( 124 )	( 250 )	( 13 )	( 6 )	( 70 )	( 89 )	( 17 )	( 24 )	( 11 )	( 11 )
19 .5	149	341	13	20	74	105	25	23	7	8
	( 140 )	( 344 )	( 11 )	( 15 )	( 76 )	( 95 )	( 25 )	( 26 )	( 8 )	( 9 )
39 .1	214	368	9	8	53	76	22	23	8	6
	( 201 )	( 393 )	( 10 )	( 10 )	( 54 )	( 86 )	( 20 )	( 27 )	( 6 )	( 7 )
78 .1	288	481	5	11	72	85	17	39	5	5
	( 294 )	( 495 )	( 7 )	( 10 )	( 70 )	( 82 )	( 21 )	( 35 )	( 5 )	( 9 )
156	0 *	493	0 *	10	44 *	81	0 *	30	0 *	11
	( 0 *)	( 470 )	( 0 *)	( 10 )	( 44 *)	( 76 )	( 0 *)	( 31 )	( 0 *)	( 12 )
313	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)
Judgement	+	+	-	-	-	-	-	-	-	-
Specific Mutagenicity	2240	11000								
Positive Control	AF-2 ( 738 )	2-AA ( 1351 )	NaN <sub>3</sub> ( 424 )	2-AA ( 242 )	AF-2 ( 1544 )	2-AA ( 1047 )	AF-2 ( 397 )	2-AA ( 490 )	9-AA ( 418 )	2-AA ( 262 )

\* Growth inhibition was observed.