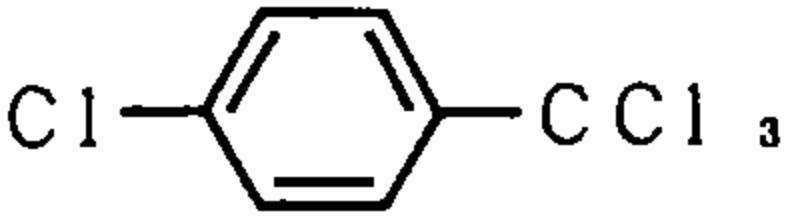


p-Chlorobenzotrichloride (p-クロロベンゾトリクロリド)

Chemical Name:	p-Chlorobenzotrichloride
Synonym	4-Chlorobenzotrichloride 1-Chloro-4-(trichloromethyl)benzene
Molecular weight:	229.92
Melting point:	°C
Boiling point:	245°C
Chemical Structure	
CAS No:	5216-25-1
MITI No:	(3)-89, (3)-93
Source of Substance:	Tokyo Kasei Kogyo Co. Ltd
Lot.No.:	FBN01
Purity:	extra pure reagent
Vehicle:	DMSO

Mutagenicity
in Bacterial Test: Positive

IARC Evaluation: not yet cited

Judgement
Specific Mutagenicity
Positive
Control

Con. μg/ plate	Experimental Data											
	Number of Revertants/plate											
	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	
DMSO	(104)	(111)	(25)	(15)	(34)	(53)	(21)	(30)	(8)	(19)	()	(23)
	125	121	17	11	51	55	19	25	8	20		21
	130	109	27	18	46	48	17	43	4	17		20
2	(128)	(115)	(22)	(15)	(49)	(52)	(18)	(34)	(6)	(19)	()	(21)
	191	165	20	16	43	53	21	27	8	17		27
	159	183	26	11	40	35	23	25	6	10		12
5	(175)	(174)	(23)	(14)	(42)	(44)	(22)	(26)	(7)	(14)	()	(20)
	221	214	24	17	40	58	19	25	7	24		19
	202	246	23	10	30	55	23	54	10	23		22
10	(212)	(230)	(24)	(14)	(35)	(57)	(21)	(40)	(9)	(24)	()	(21)
	202	383	15	15	53	56	19	39	12	42		19
	138	397	31	13	65	59	22	41	15	36		19
20	(170)	(390)	(23)	(14)	(59)	(58)	(21)	(40)	(14)	(39)	()	(19)
	112	894	19	31	46	107	28	96	10	57		23
	147	823	15	30	40	125	20	93	9	38		22
50	(130)	(859)	(17)	(31)	(43)	(123)	(24)	(95)	(10)	(48)	()	(23)
	60*	1323	14	30	45	209	13	149	9	125		26
	86*	1162	21	22	43	180	20	164	8	132		25
100	(73*)	(1243)	(18)	(26)	(44)	(190)	(17)	(157)	(9)	(129)	()	(26)
	0*	624	0*	6*	19	133	0*	108	0*	102		23
	0*	540	0*	6*	34	105	0*	98	0*	135		18
200	(0*)	(582)	(0*)	(6*)	(27)	(119)	(0*)	(103)	(0*)	(119)	()	(21)
	0*	0*	0*	0*	0*	38*	0*	0*	0*	0*		0*
	0*	0*	0*	0*	0*	39*	0*	0*	0*	0*		0*
500	(0*)	(0*)	(0*)	(0*)	(0*)	(39*)	(0*)	(0*)	(0*)	(0*)	()	(0*)
	-	+	-	+	-	+	-	+	-	+		-
		15000		320		1400		1300		1100		
	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(388)	(389)	(195)	(172)	(219)	(788)	(320)	(319)	(658)	(170)	()	(320)

Experimental Data

Con. μg/ plate	Number of Revertants/plate											
	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	()	()	()	()	()	()	()	()	()	()	(12)	()
											17	
5	()	()	()	()	()	()	()	()	()	()	(13)	()
											15	
10	()	()	()	()	()	()	()	()	()	()	(13)	()
											10	
20	()	()	()	()	()	()	()	()	()	()	(7)	()
											7	
50	()	()	()	()	()	()	()	()	()	()	(10)	()
											15	
100	()	()	()	()	()	()	()	()	()	()	(12)	()
											12	
200	()	()	()	()	()	()	()	()	()	()	(13)	()
											11	
500	()	()	()	()	()	()	()	()	()	()	(7)	()
											9	
1000	()	()	()	()	()	()	()	()	()	()	(0*)	()
											16	
											7	
											6	
											0*	
											0*	
											0*	
											-	
Judgement												
Specific Mutagenicity												
Positive	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
Control	()	()	()	()	()	()	()	()	()	()	(320)	()