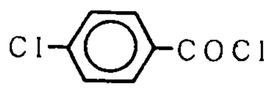
p-Chlorobenzoyl chloride (p-クロロベンゾイルクロリド)

Chemical Name: p-Chlorobenzoyl chloride
Synonym
Molecular weight: 175.02
Melting point: 12~14℃
Boiling point: 225~233℃
Flashing point: 105℃
Chemical Structure



CAS No : 122-01-0
MITI No: (3)-1409
Source of Substance:Tokyo Kasei Kogyo Co.Ltd
Lot.No.: FAX01
Purity: 98 %
Vehicle: Acetone

Mutagenicity
in Bacterial Test : Negative

IARC Evaluation : not yet cited

Experimental Data

Con. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
Acetone	(154)	(163)	(11)	(12)	(17)	(29)	(12)	(29)	(7)	(7)
	168	158	7	18	23	20	18	16	12	6
	172	140	15	17	27	36	18	17	12	7
0.0763	(170)	(149)	(11)	(18)	(25)	(28)	(18)	(17)	(12)	(7)
	148	187	9	9	16	27	12	29	6	9
	153	165	9	17	20	27	20	35	5	10
0.305	(151)	(176)	(9)	(13)	(18)	(27)	(16)	(32)	(6)	(10)
	173	171	15	10	21	23	22	29	7	12
	120	169	15	15	20	25	21	15	10	9
1.22	(147)	(170)	(15)	(13)	(21)	(24)	(22)	(22)	(9)	(11)
	160	184	18	21	16	22	15	15	6	9
	163	184	15	13	29	32	16	30	3	7
4.88	(162)	(184)	(17)	(17)	(23)	(27)	(16)	(23)	(5)	(8)
	150	190	13	12	20	36	17	18	7	8
	125	161	9	10	20	29	7	32	7	3
19.5	(138)	(176)	(11)	(11)	(20)	(33)	(12)	(25)	(7)	(6)
	171	164	12	15	27	24	18	32	7	10
	158	166	15	15	27	25	25	25	9	13
78.1	(165)	(165)	(14)	(15)	(27)	(25)	(22)	(29)	(8)	(12)
	177	146	6	16	15	31	13	25	5	9
	150	143	6	14	27	28	13	21	6	8
313	(164)	(145)	(6)	(15)	(21)	(30)	(13)	(23)	(6)	(9)
	0*	113*	0*	7*	14*	15*	0*	7*	0*	9*
	0*	109*	0*	13*	11*	17*	0*	8*	0*	5*
1250	(0*)	(111*)	(0*)	(10*)	(13*)	(16*)	(0*)	(8*)	(0*)	(7*)
	0*	0*	0*	0*	0*	7*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	15*	0*	0*	0*	0*
5000*	(0*)	(0*)	(0*)	(0*)	(0*)	(11*)	(0*)	(0*)	(0*)	(0*)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific mutagenicity										
Positive Control	AF2	2AA	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	(808)	(935)	(253)	(300)	(182)	(782)	(492)	(308)	(343)	(185)

* : Substances in this concentration were markedly precipitated.

Experimental Data

Con. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
Ace-tone	(151)	(118)	(11)	(12)	(22)	(23)	(14)	(23)	(8)	(10)
	123	133	7	20	16	15	14	22	12	14
	157	158	13	9	24	29	12	18	14	14
19.5	(140)	(146)	(10)	(15)	(20)	(22)	(13)	(20)	(13)	(14)
	147	127	7	21	24	25	12	14	7	5
	175	129	6	12	29	15	12	16	12	5
39.1	(161)	(128)	(7)	(17)	(27)	(20)	(12)	(15)	(10)	(5)
	156	114	6	14	12	22	12	22	7	8
	140	148	8	13	24	34	12	15	6	5
78.1	(148)	(131)	(7)	(14)	(18)	(28)	(12)	(19)	(7)	(7)
	102	156	13	6	23	17	13	14	9	5
	149	135	9	13	17	13	14	17	8	2
156	(126)	(146)	(11)	(10)	(20)	(15)	(14)	(16)	(9)	(4)
	124	120	12	7	14	25	8	21	3	12
	140	155	12	12	18	27	17	14	9	10
313	(132)	(138)	(12)	(10)	(16)	(26)	(13)	(18)	(6)	(11)
	76*	110	7*	8	17*	19	8*	15	5*	3
	97*	101	3*	7	6*	17	9*	28	4*	6
625*	(87*)	(106)	(5*)	(8)	(12*)	(18)	(9*)	(22)	(5*)	(5)
	0*	85*	0*	8*	17*	25*	0*	11*	0*	2*
	0*	92*	0*	11*	24*	25*	0*	15*	0*	4*
1250*	(0*)	(89*)	(0*)	(10*)	(21*)	(25*)	(0*)	(13*)	(0*)	(3*)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific mutagenicity										
Positive Control	AF2	2AA	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	(756)	(1000)	(272)	(326)	(158)	(817)	(457)	(315)	(364)	(202)

* : Substances in this concentration were markedly precipitated.

Experimental Data

Con. μg/plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WPuvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
Acetone	(222)	(289)	(174)	(252)	(101)	(164)
	223	264	188	262	119	150
	250	283	168	276	96	166
0.0763	(237)	(274)	(178)	(269)	(108)	(158)
	239	289	192	253	97	154
	223	279	194	253	98	164
0.305	(231)	(284)	(193)	(253)	(98)	(159)
	234	266	177	259	106	123
	240	296	165	265	90	121
1.22	(237)	(281)	(171)	(262)	(98)	(122)
	208	302	176	286	103	133
	239	274	-	281	112	150
4.88	(224)	(288)	(176)	(284)	(108)	(142)
	215	271	178	258	103	151
	195	279	190	257	128	153
19.5	(205)	(275)	(184)	(258)	(116)	(152)
	212	269	168	250	97	127
	218	282	172	281	103	154
78.1	(215)	(276)	(170)	(266)	(100)	(141)
	147	271	181	225	91	145
	145	307	141	231	94	151
313	(146)	(289)	(161)	(228)	(93)	(148)
	0*	88*	99*	161	104*	123*
	0*	64*	102*	148	100*	123*
1250*	(0*)	(76*)	(101*)	(155)	(102*)	(123*)
	0*	0*	0*	92*	0*	96*
	0*	0*	0*	99*	0*	133*
5000*	(0*)	(0*)	(0*)	(96*)	(0*)	(115*)
Judgement	—	—	—	—	—	—
Specific mutagenicity						
Positive Control	BLM	2AA	PA	2AA	AF2	2AA
	(486)	(1082)	(1028)	(906)	(1218)	(599)

* : Substances in this concentration were markedly precipitated.

Experimental Data

Con. μg/plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WPuvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
Acetone	(445)	(457)	(292)	(342)	(133)	(194)
	384	412	297	324	131	203
	378	437	284	275	183	201
19.5	(381)	(425)	(291)	(300)	(157)	(202)
	391	464	295	341	128	197
	430	464	286	339	158	223
39.1	(411)	(464)	(291)	(340)	(143)	(210)
	379	435	288	344	157	185
	380	410	341	326	171	212
78.1	(380)	(423)	(315)	(335)	(164)	(199)
	344	412	255	305	156	223
	341	415	294	286	161	208
156	(343)	(414)	(275)	(296)	(159)	(216)
	324*	425	321	306	162	220
	262*	384	347	295	143	198
313	(293*)	(405)	(334)	(301)	(153)	(209)
	206*	252	262*	308	76*	217
	109*	314	249*	333	102*	188
625*	(158*)	(283)	(256*)	(321)	(89*)	(203)
	0*	0*	181*	282	158*	152*
	0*	0*	177*	270	128*	183*
1250*	(0*)	(0*)	(179*)	(276)	(143*)	(168*)
			169*	0*		
			153*	0*		
2500*			(161*)	(0*)		
			0*	0*		
			0*	0*		
5000*			(0*)	(0*)		
Judgement	—	—	—	—	—	—
Specific mutagenicity						
Positive Control	BLM	2AA	PA	2AA	AF2	2AA
	(987)	(1712)	(2844)	(1480)	(2543)	(756)

* : Substances in this concentration were markedly precipitated.