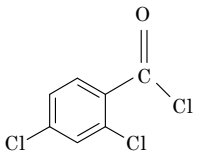
2,4-Dichlorobenzoyl chloride (2,4-ｼﾞｸﾛﾛﾍﾞﾝｿﾞｲﾙ=ｸﾛﾘﾄﾞ)

Chemical Name ; 2,4-Dichlorobenzoyl chloride
Synoym ; －

Molecular Weight ; 209.46
Melting Point ; 16-18 ℃ [Aldrich]
Boiling Point ; 146-149 ℃(28 mmHg)[CHCD]
Flashing Point ; 137.8℃ [Aldrich]
Molecular Formular; $C_7H_3Cl_3O$

Chemical Structure;



CAS No. ; 89-75-8
METI No. ; (3)-1409
MHLW No. ; －
Specified Chemical Substances;－

Source of Substance;
Lot No. ; Tokyo Kasei Kogyo Co., Ltd.
Purity ; >95%

Vehicle ; Dehydrated acetone

Mutagenicity in Bacterial Test; Negative

IARC Evaluation ; not yet cited

Conc. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2*uvrA*/pKM101		TA98		TA1537	
	S9－	S9＋	S9－	S9＋	S9－	S9＋	S9－	S9＋	S9－	S9＋
Acetone	(127)	(159)	(7)	(8)	(58)	(98)	(15)	(20)	(8)	(11)
	134	111	9	18	59	102	24	30	2	15
	127	139	15	9	61	101	17	22	7	8
1 .22	(131)	(125)	(12)	(14)	(60)	(102)	(21)	(26)	(5)	(12)
	131	142	11	14	63	114	11	15	7	7
	117	133	13	7	53	105	10	20	7	6
4 .88	(124)	(138)	(12)	(11)	(58)	(110)	(11)	(18)	(7)	(7)
	108	162	6	8	57	94	21	18	7	11
	133	164	11	10	68	87	10	30	2	9
19 .5	(121)	(163)	(9)	(9)	(63)	(91)	(16)	(24)	(5)	(10)
	121	184	13	11	63	100	16	31	7	10
	122	137	5	7	76	99	10	23	5	10
78 .1	(122)	(161)	(9)	(9)	(70)	(100)	(13)	(27)	(6)	(10)
	91 *	137	2 *	8	67	78	6 *	20	3 *	10
	91 *	134	6 *	11	52	104	5 *	13	6 *	9
313	(91 *)	(136)	(4 *)	(10)	(60)	(91)	(6 *)	(17)	(5 *)	(10)
	14 *	77 *	16 *	4 *	56 *	110 *	6 *	16 *	15 *	5 *
	32 *	94 *	10 *	5 *	30 *	105 *	9 *	13 *	8 *	6 *
1250 ††	(23 *)	(86 *)	(13 *)	(5 *)	(43 *)	(108 *)	(8 *)	(15 *)	(12 *)	(6 *)
	0 *	0 *	0 *	1 *	0 *	83 *	0 *	0 *	0 *	3 *
	0 *	0 *	0 *	5 *	0 *	85 *	0 *	0 *	0 *	7 *
5000 †	(0 *)	(0 *)	(0 *)	(3 *)	(0 *)	(84 *)	(0 *)	(0 *)	(0 *)	(5 *)
Judgement	－	－	－	－	－	－	－	－	－	－
Specific Mutagenicity										
Positive Control	AF-2 (774)	2-AA (1295)	NaN_3 (483)	2-AA (303)	AF-2 (1241)	2-AA (1090)	AF-2 (479)	2-AA (496)	9-AA (427)	2-AA (266)

* Growth inhibition was observed.
† Test chemical was precipitated with and without S9mix.
†† Test chemical was precipitated without S9mix.

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2*uvrA*/pKM101		TA98		TA1537	
	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+
Acetone	(135)	(145)	(13)	(10)	(74)	(95)	(13)	(23)	(11)	(14)
9 .77	139 114 (127)	( )	10 13 (12)	( )	( )	( )	16 14 (15)	( )	13 17 (15)	( )
19 .5	136 143 (140)	( )	10 9 (10)	( )	( )	( )	13 11 (12)	( )	14 15 (15)	( )
39 .1	105 121 (113)	121 128 (125)	6 6 (6)	7 6 (7)	62 57 (60)	105 116 (111)	16 13 (15)	24 24 (24)	9 14 (12)	18 22 (20)
78 .1	111 111 (111)	121 120 (121)	8 11 (10)	3 10 (7)	67 74 (71)	130 113 (122)	16 15 (16)	34 24 (29)	10 18 (14)	24 17 (21)
156	116 116 (116)	131 142 (137)	13 6 (10)	15 7 (11)	78 61 (70)	111 134 (123)	11 20 (16)	22 24 (23)	14 15 (15)	16 29 (23)
313	93 * 77 * (85 *)	109 116 (113)	10 * 6 * (8 *)	14 17 (16)	70 82 (76)	116 86 (101)	11 * 9 * (10 *)	23 10 (17)	8 * 9 * (9 *)	22 26 (24)
625	( )	106 * 104 * (105 *)	( )	5 * 3 * (4 *)	57 68 (63)	106 100 (103)	( )	21 * 28 * (25 *)	( )	8 * 13 * (11 *)
1250 †	( )	95 * 81 * (88 *)	( )	5 * 3 * (4 *)	62 * 52 * (57 *)	81 * 123 * (102 *)	( )	16 * 11 * (14 *)	( )	6 * 5 * (6 *)
Judgement	−	−	−	−	−	−	−	−	−	−
Specific Mutagenicity										
Positive Control	AF-2 (743)	2-AA (1492)	NaN_3 (432)	2-AA (263)	AF-2 (859)	2-AA (968)	AF-2 (479)	2-AA (481)	9-AA (431)	2-AA (235)

* Growth inhibition was observed.

† Test chemical was precipitated with S9mix.