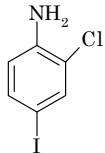


2-Chloro-4-iodoaniline (2-クロロ-4-ヨードアニリン)

Chemical Name	: 2-Chloro-4-iodoaniline
Synonym	: CIA 2-Chloro-4-iodobenzenamine
Molecular Weight	: 253.47
Melting Point	: 73°C[CHCD]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C ₆ H ₅ ClI
Chemical Structure:	
CAS No.	: 42016-93-3
METI No.	: -
MHLW No.	: 4-(12)-781
Specified Chemical Substances	: -
Source of Substance	: Nippon Chemicals Co., Ltd.
Lot No.	: N0040
Purity	: 99.8%
Vehicle	: DMSO

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvr4/pKM101		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(105)	(126)	(8)	(7)	(80)	(116)	(21)	(23)	(6)	(11)
	127	142	14	10	75	117	21	31	3	17
1 .22	119	142	3	8	75	111	25	32	3	9
	(123)	(142)	(9)	(9)	(75)	(114)	(23)	(32)	(3)	(13)
	94	167	7	9	69	117	21	34	6	14
4 .88	126	153	7	7	87	108	22	39	6	9
	(110)	(160)	(7)	(8)	(78)	(113)	(22)	(37)	(6)	(12)
	115	190	7	10	84	146	16	32	7	15
19 .5	98	200	5	14	74	108	23	31	5	13
	(107)	(195)	(6)	(12)	(79)	(127)	(20)	(32)	(6)	(14)
	89	226	8	9	72	116	10	36	5	11
78 .1	129	209	9	13	63	114	18	31	2	5
	(109)	(218)	(9)	(11)	(68)	(115)	(14)	(34)	(4)	(8)
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
313	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
1250	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
5000 †	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (678)	2-AA (1298)	NaN ₃ (362)	2-AA (236)	AF-2 (1675)	2-AA (857)	AF-2 (431)	2-AA (446)	9-AA (482)	2-AA (216)

Mutagenicity in Bacterial Test: Positive

IARC Evaluation : not yet cited

* Growth inhibition was observed.

† Test chemical was precipitated without S9mix.

Experimental Data-2

(B0202-2/4)

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+
	(105)	(111)	(8)	(9)	(73)	(124)	(15)	(28)	(7)	(10)
4 .88	108	163	8	11	61	108	21	36	9	10
	97	149	5	5	75	109	18	22	9	9
	(103)	(156)	(7)	(8)	(68)	(109)	(20)	(29)	(9)	(10)
9 .77	100	174	7	16	66	100	10	23	5	5
	85	178	5	10	72	104	17	30	7	9
	(93)	(176)	(6)	(13)	(69)	(102)	(14)	(27)	(6)	(7)
19 .5	111	191	11	14	67	111	15	26	6	8
	113	191	8	9	62	109	10	34	6	11
	(112)	(191)	(10)	(12)	(65)	(110)	(13)	(30)	(6)	(10)
39 .1	96	194	5	13	72	116	17	34	5	6
	113	205	7	7	74	99	18	33	5	11
	(105)	(200)	(6)	(10)	(73)	(108)	(18)	(34)	(5)	(9)
78 .1	108	219	6	8	54	106	15	33	6	10
	108	243	6	11	61	114	22	26	6	18
	(108)	(231)	(6)	(10)	(58)	(110)	(19)	(30)	(6)	(14)
156	0 *	184	0 *	8	68	98	0 *	33	0 *	7
	0 *	197	0 *	10	62	136	0 *	38	0 *	17
	(0 *)	(191)	(0 *)	(9)	(65)	(117)	(0 *)	(36)	(0 *)	(12)
313	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)
Judgement	-	+	-	-	-	-	-	-	-	-
Specific Mutagenicity		1540								
Positive Control	AF-2 (640)	2-AA (1324)	NaN ₃ (370)	2-AA (232)	AF-2 (1377)	2-AA (785)	AF-2 (444)	2-AA (432)	9-AA (386)	2-AA (193)

* Growth inhibition was observed.

Experimental Data-3

Conc. μ g/plate	Number of Revertants/plate	
	Base-substitution	
DMSO	TA100	
	S9+	
	(128)	
4 .88	156	
	143	
	(150)	
9 .77	192	
	146	
	(169)	
19 .5	183	
	200	
	(192)	
39 .1	200	
	195	
	(198)	
78 .1	243	
	207	
	(225)	
156	194	
	205	
	(200)	
313	0 *	
	0 *	
	(0 *)	
Judgement	—	
Specific Mutagenicity		
Positive Control	2-AA (1356)	

* Growth inhibition was observed.

Experimental Data-4 (B0202-3/4)

Conc. μ g/plate	Number of Revertants/plate	
	Base-substitution	
DMSO	TA100	
	S9+	
	(115)	
25	108	
	142	
	(125)	
50	115	
	162	
	(139)	
75	173	
	172	
	(173)	
100	180	
	187	
	(184)	
125	207	
	222	
	(215)	
150	218	
	204	
	(211)	
175	171 *	
	191 *	
	(181 *)	
Judgement	—	
Specific Mutagenicity		
Positive Control	2-AA (1211)	

* Growth inhibition was observed.

Experimental Data-5

Conc. μ g/plate	Number of Revertants/plate	
	Base-substitution	
DMSO	TA100	
	30% S9+	
	(153)	
2 .44	171	186
	(179)	
	196	176
4 .88	(186)	
	212	204
	(208)	
9 .77	207	226
	(217)	
	253	316
39 .1	(285)	
	285	300
	(293)	
78 .1	280	304
	(292)	
	247	246
313	(247)	
	0 *	0 *
	(0 *)	
625	0 *	0 *
	(0 *)	
	0 *	0 *
1250	(0 *)	
	0 *	0 *
	(0 *)	
2500	0 *	0 *
	(0 *)	
	0 *	0 *
5000	(0 *)	
	Judgement —	
	Specific Mutagenicity	
Positive Control	2-AA (375)	

* Growth inhibition was observed.

Experimental Data-6

Conc. μ g/plate	Number of Revertants/plate	
	Base-substitution	
DMSO	TA100	
	30% S9+	
	(127)	
50	219	276
	(248)	
	303	311
100	(307)	
	290	337
	(314)	
150	287	286
	(287)	
	267	261
200	(264)	
	292 *	262 *
	(277 *)	
250	265 *	265 *
	(265 *)	
	Judgement +	
Specific Mutagenicity	1800	
Positive Control	2-AA (393)	

* Growth inhibition was observed.

Experimental Data-7 (B0202-4/4)

Conc. μ g/plate	Number of Revertants/plate	
	Base-substitution	
DMSO	TA100	
	30% S9+	
	(119)	
25	185	213
	(199)	
	263	256
50	(260)	
	227	233
	(230)	
100	262	273
	(268)	
	259	236
150	(248)	
	225	221
	(223)	
250	241 *	222 *
	(232 *)	
	205 *	163 *
300	(184 *)	
	Judgement +	
	Specific Mutagenicity 2820	
350	205 *	
350	(184 *)	
	Judgement +	
	Specific Mutagenicity 2820	
Positive Control	2-AA (332)	

* Growth inhibition was observed.