

2-Amino-4-chlorophenol

[2-アミノ-4-クロロフェノール]

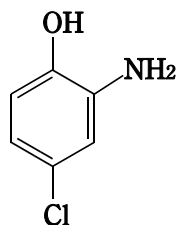
Experimental Data - 1

(B9302-1/3)

Chemical Name; 2-Amino-4-chlorophenol
 Synonym ; 2-Amino-4-chlorohydroxybenzene
 2-アミノ-4-クロロヒドロキシベンゼン

Molecular Weight ; 143.57
 Melting Point ; 140 - 141 °C [CHCD]
 139 - 143 °C [Aldrich]
 Boiling Point ; - °C
 Flashing Point ; - °C
 Molecular Formula; C₆H₆ClNO

Chemical Structure



CAS No. ; 95-85-2
 MITI No. ; (3)-906
 ML No. ; 4-(10)-32
 Specified Chemical Substances; -

Source of Substance; Tokyo Kasei Kogyo Co., Ltd.
 Lot No. ; FBU01
 Purity ; 99 %

Vehicle ; DMSO

Mutagenicity in Bacterial Test ; **Positive**

IARC Evaluation ; not yet cited

Conc. 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+
DMSO	(140)	(144)	(11)	(14)	(25)	(30)	(20)	(27)	(8)	(11)
	178	141	8	22	30	26	16	31	3	9
	145	138	14	9	31	34	16	31	6	13
0.0763	(162)	(140)	(11)	(16)	(31)	(30)	(16)	(31)	(5)	(11)
	142	133	9	15	28	25	21	23	5	9
	143	157	8	15	31	41	22	24	10	7
0.305	(143)	(145)	(9)	(15)	(30)	(33)	(22)	(24)	(8)	(8)
	129	158	17	18	25	34	17	23	7	10
	108	131	8	10	18	31	10	26	7	13
1.22	(119)	(145)	(13)	(14)	(22)	(33)	(14)	(25)	(7)	(12)
	145	164	13	10	29	23	16	24	6	14
	138	151	7	21	22	38	14	24	8	14
4.88	(142)	(158)	(10)	(16)	(26)	(31)	(15)	(24)	(7)	(14)
	151	185	8	9	20	34	21	34	7	13
	141	202	13	15	23	23	22	26	8	7
19.5	(146)	(194)	(11)	(12)	(22)	(29)	(22)	(30)	(8)	(10)
	173	178	5	15	30	24	20	30	9	9
	137	204	20	18	25	33	15	36	3	11
78.1	(155)	(191)	(13)	(17)	(28)	(29)	(18)	(33)	(6)	(10)
	177	229	9	13	23	17	16	32	9	24
	185	206	7	16	21	22	16	37	2	17
313	(181)	(218)	(8)	(15)	(22)	(20)	(16)	(35)	(6)	(21)
	34*	268*	3*	17*	16*	25	2*	25	1*	20*
	20*	248*	5*	16*	16*	26	3*	36	2*	18*
1250	(27*)	(258*)	(4*)	(17*)	(16*)	(26)	(3*)	(31)	(2*)	(19*)
	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*)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (709)	2-AA (936)	NaN ₃ (373)	2-AA (262)	AF-2 (145)	2-AA (1214)	AF-2 (584)	2-AA (292)	9-AA (465)	2-AA (131)

Conc. µg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i>		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(129)	(134)	(10)	(13)	(28)	(33)	(18)	(23)	(8)	(13)
DMSO	146	176	6	10	30		17		8	8
	145	200	13	21	18		16		9	11
19.5	(146)	(188)	(10)	(16)	(24)		(17)		(9)	(10)
	145	195	8	7	29	30	17	22	8	10
	164	198	8	14	28	33	21	39	6	9
39.1	(155)	(197)	(8)	(11)	(29)	(32)	(19)	(31)	(7)	(10)
	152	197	21	18	34	32	25	34	5	8
	174	206	9	14	22	45	17	25	6	10
78.1	(163)	(202)	(15)	(16)	(28)	(39)	(21)	(30)	(6)	(9)
	169	218	15	14	26	34	26	28	6	17
	183	223	9	8	28	29	17	28	5	15
156	(176)	(221)	(12)	(11)	(27)	(32)	(22)	(28)	(6)	(16)
	197	236	10	13	25	23	15	34	9	18
	174	241	13	18	22	25	17	26	7	25
313	(186)	(239)	(12)	(16)	(24)	(24)	(16)	(30)	(8)	(22)
	211	254	10	22	26	22	15	34	1	37
	223	240	5	14	22	32	13	30	3	18
625	(217)	(247)	(8)	(18)	(24)	(27)	(14)	(32)	(2)	(28)
	57*	253*	1*	18*	20*	29	2*	28	2*	20*
	61*	292*	2*	15*	20*	28	2*	26	2*	24*
1250	(59*)	(273*)	(2*)	(17*)	(20*)	(29)	(2*)	(27)	(2*)	(22*)
	0*	0*	0*	0*	7*	7*	0*	8*	0*	1*
	0*	0*	0*	0*	8*	15*	0*	5*	0*	1*
2500	(0*)	(0*)	(0*)	(0*)	(8*)	(11*)	(0*)	(7*)	(0*)	(1*)
					0*			0*		
					0*			0*		
5000					(0*)			(0*)		
Judgement	-	+	-	-	-	-	-	-	-	+
Specific Mutagenicity		111								24
Positive Control	AF-2 (828)	2-AA (986)	NaN ₃ (390)	2-AA (276)	AF-2 (178)	2-AA (1373)	AF-2 (545)	2-AA (301)	9-AA (694)	2-AA (177)

Experimental Data - 3

(B9302-3/3)

Conc. µg/plate	Number of Revertants/plate			
	Base-substitution		Frame-shift	
	TA100		TA1537	
	S9-	S9+	S9-	S9+
DMSO	(155)	(140)	(5)	(6)
	184	219	8	6
	171	227	7	8
39.1	(178)	(223)	(8)	(7)
	167	233	5	8
	170	242	7	14
78.1	(169)	(238)	(6)	(11)
	192	247	6	7
	198	211	7	15
156	(195)	(229)	(7)	(11)
	229	271	5	11
	232	246	5	11
313	(231)	(259)	(5)	(11)
	174	249	1	15
	205	255	1	15
625	(190)	(252)	(1)	(15)
	24*	316*	1*	30*
	108*	286*	1*	20*
1250	(66*)	(301*)	(1*)	(25*)
	0*	0*	0*	0*
	0*	0*	0*	0*
2500	(0*)	(0*)	(0*)	(0*)
Judgement	-	+	-	+
Specific Mutagenicity		129		15.2
Positive Control	AF-2 (810)	2-AA (963)	9-AA (315)	2-AA (125)