

2,4-Dinitro-6-chloroaniline

Experimental Data - 1

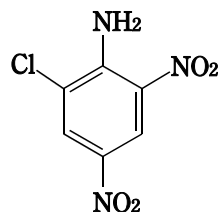
Experimental Data - 2 (B9311-1/1)

[2,4-ジニトロ-6-クロロアニリン]

Chemical Name: 2,4-Dinitro-6-chloroaniline
 Synonym : 6-Chloro-2,4-dinitroaniline
 2-Chloro-4,6-dinitroaniline
 2-Chloro-4,6-dinitrobenzenamine
 2-クロロ-2,4-ジニトロアニリン
 2-クロロ-4,6-ジニトロアニリン
 2-クロロ-4,6-ジニトロベンゼンアミン

Molecular Weight ; 217.57
 Melting Point ; 157 °C [CHCD]
 157 - 159 °C [Aldrich]
 Boiling Point ; - °C
 Flashing Point ; - °C
 Molecular Formula; C₆H₄ClN₃O₄

Chemical Structure



CAS No. ; 3531-19-9
 MITI No. ; (3)-422
 ML No. ; -
 Specified Chemical Substances; -

Source of Substance; Tokyo Kasei Kogyo Co., Ltd.
 Lot No. ; FBI01
 Purity ; - %

Vehicle ; DMSO

Mutagenicity in Bacterial Test ; **Positive**

IARC Evaluation ; not yet cited

Conc. μg/plate	Number of Revertants/plate			
	Base-substitution		Frame-shift	
	TA100		TA98	
	S9-	S9+	S9-	S9+
DMSO	(142)	(147)	(20)	(27)
	138	141	15	21
	148	141	16	37
0.0153	(143)	(141)	(16)	(29)
	146	157	16	40
	137	135	25	34
0.610	(142)	(146)	(21)	(37)
	142	145	21	105
	135	160	22	82
2.44	(139)	(153)	(22)	(94)
	188	213	32	235
	177	197	32	226
9.77	(183)	(205)	(32)	(231)
	366	349	94	703
	382	371	79	665
39.1	(374)	(360)	(87)	(684)
	776	759	268	1692
	821	784	309	1516
156	(799)	(772)	(289)	(1604)
	886	528	566	2216
	507	542	489	1676
625	(697)	(535)	(528)	(1946)
	0*	0*	0*	0*
	0*	0*	0*	0*
2500 †	(0*)	(0*)	(0*)	(0*)
	0*	0*	0*	0*
	0*	0*	0*	0*
5000 †	(0*)	(0*)	(0*)	(0*)
Judgement	+	+	+	+
Specific Mutagenicity	5930	5450	1720	27500
Positive Control	AF-2 (723)	2-AA (1050)	AF-2 (501)	2-AA (269)

† Test chemical was precipitated.

Conc. μg/plate	Number of Revertants/plate			
	Base-substitution		Frame-shift	
	TA100		TA98	
	S9-	S9+	S9-	S9+
DMSO	(143)	(153)	(24)	(29)
				31
				33
0.153				(32)
				34
				40
0.305				(37)
				39
				32
0.610				(36)
				59
				43
1.22				(51)
	150	195	13	82
	145	158	23	76
2.44	(148)	(177)	(18)	(79)
	153	190	31	100
	159	169	21	127
4.88	(156)	(180)	(26)	(114)
	227	212	49	187
	192	216	37	176
9.77	(210)	(214)	(43)	(182)
	229	234	47	343
	242	219	60	337
19.5	(236)	(227)	(54)	(340)
	325	362	82	
	343	379	83	
39.1	(334)	(371)	(83)	
	521	560	174	
	539	518	173	
78.1	(530)	(539)	(174)	
	818	784	314	
	771	803	314	
156	(795)	(794)	(314)	
			406	
			444	
313			(425)	
Judgement	+	+	+	+
Specific Mutagenicity	4960	5580	1920	20500
Positive Control	AF-2 (659)	2-AA (1116)	AF-2 (552)	2-AA (283)