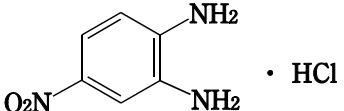


4-Nitro-*o*-phenylenediamine monohydrochloride[4-ニトロ-*o*-フェニレンジアミン・HCl]

## Experimental Data - 1

## Experimental Data - 2 (B9316-1/1)

Chemical Name:	4-Nitro- <i>o</i> -phenylenediamine mono-hydrochloride
Synonym	1,2-Diamino-4-nitrobenzene mono-hydrochloride NO <sub>2</sub> PD 4-Nitro-1,2-benzenediamine・HCl 1,2-ジアミノ-4-ニトロベンゼンモノヒドロクロライド 4-ニトロ-1,2-フェニレンジアミン・HCl
Molecular Weight	; 189.60
Melting Point	; - ℃
Boiling Point	; - ℃
Flashing Point	; - ℃
Molecular Formula	; C <sub>6</sub> H <sub>7</sub> N <sub>3</sub> O <sub>2</sub> ・HCl
Chemical Structure	
CAS No.	; 53209-19-1
MITI No.	; (3)-402
ML No.	; -
Specified Chemical Substances	; -
Source of Substance	; Tokyo Kasei Kogyo Co., Ltd.
Lot No.	; C201
Purity	; 100 %
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	(154)	(160)	( 22)	( 24)
	165	159	20	38
	173	172	29	30
0.0763	(169)	(166)	( 25)	( 34)
	155	178	48	37
	178	163	63	34
0.305	(167)	(171)	( 56)	( 36)
	220	158	101	69
	187	156	112	61
1.22	(204)	(157)	(107)	( 65)
	246	200	280	152
	242	192	299	145
4.88	(244)	(196)	(290)	(149)
	441	276	797	446
	427	261	933	488
19.5	(434)	(269)	(865)	(467)
	992	467	2273	1233
	976	455	2268	1259
78.1	(984)	(461)	(2271)	(1246)
	2268	1018	2500	1814
	2182	1095	2781	1860
313	(2225)	(1057)	(2641)	(1837)
	0*	0*	0*	0*
	0*	0*	0*	0*
1250	( 0*)	( 0*)	( 0*)	( 0*)
	0*	0*	0*	0*
	0*	0*	0*	0*
5000 †	( 0*)	( 0*)	( 0*)	( 0*)
Judgement	+	+	+	+
Specific Mutagenicity	14400	3850	111000	33600
Positive Control	AF-2 (930)	2-AA (1226)	AF-2 (463)	2-AA (319)

† Test chemical was precipitated.

Conc. μg/plate	Number of Revertants/plate			
	Base-substitution		Frame-shift	
	TA100		TA98	
	S9-	S9+	S9-	S9+
DMSO	(171)	(184)	( 17)	( 26)
	17	22	21	24
0.0191			( 19)	( 23)
			28	26
			23	18
0.0381			( 26)	( 22)
			37	25
			29	30
0.0763			( 33)	( 28)
			49	40
			38	31
0.135			( 44)	( 36)
			57	36
			49	52
0.305			( 53)	( 44)
			124	55
			100	56
0.610			(112)	( 56)
	216	178	199	99
	213	179	165	68
1.22	(215)	(179)	(182)	( 84)
	220	197		
	232	215		
2.44	(226)	(206)		
	275	227		
	280	233		
4.88	(278)	(230)		
	419	259		
	397	265		
9.77	(408)	(262)		
	660	334		
	623	365		
19.5	(642)	(350)		
	1008	432		
	890	451		
39.1	(949)	(442)		
	2195	1059		
	2071	966		
78.1	(2133)	(1013)		
Judgement	+	+	+	+
Specific Mutagenicity	25100	10600	200000	49200
Positive Control	AF-2 (864)	2-AA (1382)	AF-2 (421)	2-AA (331)