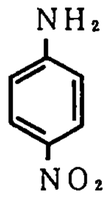
p-Nitroaniline (p-ニトロアニリン)

Chemical Name: p-Nitroaniline
Synoym: p-Aminonitrobenzene
Benzenamine, 4-nitro-
Molecular weight: 138.13
Melting point: 147~150℃
Boiling point: ≒ 332℃, 260℃ (100mmHg)
Flashing point: 165℃
Chemical Structure



CAS No : 100-01-6
MITI No: (3)-392
Source of Substance:Tokyo Kasei Kogyo Co.Ltd
Lot.No. : FBV01
Purity: 99 %
Vehicle: DMSO

Mutagenicity
in Bacterial Test : Positive

IARC Evaluation: not yet cited

Experimental Data

Con. 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	(152)	(172)	(8)	(8)	(29)	(35)	(25)	(23)	(4)	(7)
	150	173	10	8	25	38	28	25	7	8
	156	176	8	10	30	50	24	22	5	6
39.1	(153)	(175)	(9)	(9)	(28)	(44)	(26)	(24)	(6)	(7)
	171	185	7	12	42	38	15	24	5	12
	140	186	12	8	35	39	23	25	3	10
78.1	(156)	(186)	(10)	(10)	(39)	(39)	(19)	(25)	(4)	(11)
	169	180	5	7	35	44	27	29	3	6
	164	184	9	12	34	36	24	15	5	5
156	(167)	(182)	(7)	(10)	(35)	(40)	(26)	(22)	(4)	(6)
	158	170	7	12	42	39	21	28	5	6
	131	188	8	15	36	45	15	28	5	6
313	(145)	(179)	(8)	(14)	(39)	(42)	(18)	(28)	(5)	(6)
	165	177	6	8	28	46	20	38	7	5
	147	165	8	9	27	42	21	35	5	8
625	(156)	(171)	(7)	(9)	(28)	(44)	(21)	(37)	(6)	(7)
	166	169	7	10	30	42	23	52	8	10
	170	166	12	13	34	29	23	52	6	12
1250	(168)	(168)	(10)	(12)	(32)	(36)	(23)	(52)	(7)	(11)
	140	131	5	6	37	29	23	60	8	8
	143	150	9	8	30	31	25	51	8	7
2500	(142)	(141)	(7)	(7)	(34)	(30)	(24)	(56)	(8)	(8)
	111	129	7	6	23	34	24	71	7	6
	96	116	5	7	27	20	17	66	14	5
5000	(104)	(123)	(6)	(7)	(25)	(27)	(21)	(69)	(11)	(6)
Judgement	−	−	−	−	−	−	−	+	+	−
Specific Mutagenicity								23.2	1.40	
Positive Control	AF2 (781)	2AA (906)	NaN_3 (312)	2AA (235)	AF2 (254)	2AA 20 (870)	AF2 (365)	2AA (394)	9AA (441)	2AA (167)

10% S9 : RAA-235

Con. 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	(151)	(175)	(7)	(10)	(28)	(32)	(21)	(19)	(6)	(6)
	155	165	9	7	29	36	24	23	9	7
	156	186	7	7	25	31	27	22	7	9
156	(156)	(176)	(8)	(7)	(27)	(34)	(26)	(23)	(8)	(8)
	139	179	3	9	22	29	23	28	8	10
	127	173	8	10	34	35	27	29	8	3
313	(133)	(176)	(6)	(10)	(28)	(32)	(25)	(29)	(8)	(7)
	153	166	6	7	25	34	29	39	2	10
	148	176	8	9	28	28	23	42	6	7
625	(151)	(171)	(7)	(8)	(27)	(31)	(26)	(41)	(4)	(9)
	156	181	3	12	27	38	25	60	10	7
	149	170	10	9	32	44	22	47	3	6
1250	(153)	(176)	(7)	(11)	(30)	(41)	(24)	(54)	(7)	(7)
	135	149	6	10	22	27	28	64	9	8
	139	153	9	7	29	30	27	53	6	6
2500	(137)	(151)	(8)	(9)	(26)	(29)	(28)	(59)	(8)	(7)
	101	125	8	5	16	29	17	84	13	5
	118	126	6	8	21	24	15	87	12	6
5000	(110)	(126)	(7)	(7)	(19)	(27)	(16)	(86)	(13)	(6)
Judgement	−	−	−	−	−	−	−	+	+	−
Specific Mutagenicity								35.2	1.40	
Positive Control	AF2	2AA	NaN_3	2AA	AF2	2AA 20	AF2	2AA	9AA	2AA
	(764)	(868)	(244)	(260)	(225)	(899)	(360)	(457)	(435)	(208)