Hydrazine(anhydrous) (ヒドラジン(無水))

Chemical Name: Hydrazine(anhydrous)
Synonym
Molecular weight: 32.05
Melting point: 1.4℃
Boiling point: 113.5℃
Flashing point: 52℃
Chemical Structure

H_2N-NH_2

CAS No : 302-01-2
MITI No: (1)-374
Source of Substance:Tokyo Kasei Kogyo Co.Ltd
Lot.No.: AY01
Purity: 97.5% 以上
Vehicle: H_2O

Mutagenicity
in Bacterial Test : Positive

IARC Evaluation : G 2B

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+
H_2O	(140)	(144)	(14)	(12)	(35)	(30)	(15)	(24)	(7)	(8)
	165	166	9	8	33	30	10	21	8	11
	179	144	6	7	29	36	11	22	2	14
0.0763	(172)	(155)	(8)	(8)	(31)	(33)	(11)	(22)	(5)	(13)
	153	144	11	15	40	44	17	24	2	6
	156	133	14	13	32	21	9	21	6	13
0.305	(155)	(139)	(13)	(14)	(36)	(33)	(13)	(23)	(4)	(10)
	169	145	17	16	37	40	15	26	10	7
	135	163	18	17	45	56	20	21	6	8
1.22	(152)	(154)	(18)	(17)	(41)	(48)	(18)	(24)	(8)	(8)
	130	129	21	21	71	85	13	24	6	7
	142	160	24	20	85	134	11	20	7	8
4.88	(136)	(145)	(23)	(21)	(78)	(110)	(12)	(22)	(7)	(8)
	159	177	25	47	163	638	15	31	7	6
	153	164	34	33	181	713	18	23	9	5
19.5	(156)	(171)	(30)	(40)	(172)	(676)	(17)	(27)	(8)	(6)
	142	221	46	109	405	1736	20	21	6	8
	170	233	39	97	425	1577	23	21	18	3
78.1	(156)	(227)	(43)	(103)	(415)	(1657)	(22)	(21)	(12)	(6)
	66*	268	0*	187	596	1783	0*	23	0*	8
	219*	268	0*	160	438	1731	0*	28	0*	8
313	(143*)	(268)	(0*)	(174)	(517)	(1757)	(0*)	(26)	(0*)	(8)
	0*	180	0*	172*	0*	2155	0*	15	0*	6*
	0*	184	0*	149*	0*	2479	0*	22	0*	9*
1250	(0*)	(182)	(0*)	(161*)	(0*)	(2317)	(0*)	(19)	(0*)	(8*)
	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			821	1440	8810	33100				
Positive Control	AF2	2AA	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	(1158)	(1530)	(360)	(331)	(196)	(1366)	(382)	(363)	(1219)	(113)

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+
H_2O	(158)	(144)	(12)	(9)	(24)	(25)	(17)	(24)	(8)	(6)
			16	14	38	79				
			15	18	53	83				
2.44			(16)	(16)	(46)	(81)				
			15	21	87	232	11		13	
			16	13	74	234	22		5	
4.88			(16)	(17)	(81)	(233)	(17)		(9)	
	143		28	26	144	575	23		9	
	146		29	36	130	493	16		3	
9.77	(145)		(29)	(31)	(137)	(534)	(20)		(6)	
	163		29	40	216	853	22		5	
	165		33	52	220	867	20		7	
19.5	(164)		(31)	(46)	(218)	(860)	(21)		(6)	
	176		40	78	391	2032	20		9	7
	158		39	72	422	1502	11		5	2
39.1	(167)		(40)	(75)	(407)	(1767)	(16)		(7)	(5)
	169	223	62	149	477	2306	36	22	14	9
	177	227	44	134	612	2386	46	32	10	3
78.1	(173)	(225)	(53)	(142)	(545)	(2346)	(41)	(27)	(12)	(6)
	226	236	47	190	699	2199	0*	32	7*	6
	211	260	55	178	728	1479	0*	23	0*	9
156	(219)	(248)	(51)	(184)	(714)	(1839)	(0*)	(28)	(4*)	(8)
	0*	305					0*	20	0*	6
	246*	299					0*	26	0*	8
313	(123*)	(302)					(0*)	(23)	(0*)	(7)
	0*	300						32		1*
	0*	299						30		2*
625	(0*)	(300)						(31)		(2*)

continued to the next page

		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+
			190*						8*		0*
			265*						17*		0*
	1250		(228*)						(13*)		(0*)
			20*						0*		0*
			0*						0*		0*
	2500		(10*)						(0*)		(0*)
	5000		(0*)						(0*)		
Judgement		−	+	+	+	+	+	+	−	−	−
Specific mutagenicity			505	1740	2250	11700	52100	307			
	Positive Control	AF2 (1240)	2AA (1054)	NaN_3 (365)	2AA (270)	AF2 (211)	2AA (1464)	AF2 (492)	2AA (377)	9AA (1189)	2AA (134)