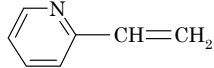


Experimental Data-1

(B0109-1/2)

2-Vinylpyridine (2-ビニルピリジン)

Chemical Name	: 2-Vinylpyridine
Synonym	: 2-Ethenylpyridine 2-Pyridylethylene
Molecular Weight	: 105.14
Melting Point	: -
Boiling Point	: 158-159°C (decomposition) [CHCD]
Flashing Point	: 50°C [CHCD]
Molecular Formula	: C ₇ H ₇ N
Chemical Structure:	
CAS No.	: 100-69-6
METI No.	: (5)-716
MHLW No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: FHJ01
Purity	: 97%
Vehicle	: DMSO

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(101)	(119)	(12)	(10)	(74)	(119)	(15)	(24)	(10)
1 .22	124	126	7	8	86	136	15	33	8	15
	136	115	8	8	82	149	9	24	13	15
4 .88	(130)	(121)	(8)	(8)	(84)	(143)	(12)	(29)	(11)	(15)
	116	130	11	9	112	145	13	15	10	13
19 .5	99	131	15	15	111	138	20	30	10	17
	(108)	(131)	(13)	(12)	(112)	(142)	(17)	(23)	(10)	(15)
78 .1	117	112	11	11	116	167	17	23	10	11
	106	129	10	11	117	142	9	18	6	9
313	(112)	(121)	(11)	(11)	(117)	(155)	(13)	(21)	(8)	(10)
	127	134	13	16	92	157	15	31	9	9
5000	99	108	10	13	100	155	14	18	5	16
	(113)	(121)	(12)	(15)	(96)	(156)	(15)	(25)	(7)	(13)
1250	102	124	8	17	126	174	14	23	10	8
	83	123	9	13	151	180	16	22	6	13
5000	(93)	(124)	(9)	(15)	(139)	(177)	(15)	(23)	(8)	(11)
	107	179	13	13	158	254	15	14	3	11
5000	99	124	15	18	131	240	10	22	2	3
	(103)	(152)	(14)	(16)	(145)	(247)	(13)	(18)	(3)	(7)
5000	0 *	0 *	0 *	0 *	0 *	0	0 *	0 *	0 *	0 *
	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0)	(0 *)	(0 *)	(0 *)	(4 *)
Judgement	-	-	-	-	-	+	-	-	-	-
Specific Mutagenicity						102				
Positive Control	AF-2	2-AA	NaN ₃	2-AA	AF-2	2-AA	AF-2	2-AA	9-AA	2-AA
	(722)	(1223)	(401)	(228)	(1214)	(975)	(440)	(444)	(226)	(198)

Mutagenicity in Bacterial Test: Positive

IARC Evaluation : not yet cited

* Growth inhibition was observed.

Experimental Data-2

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution					Frame-shift				
	TA100		TA1535		WP2 $uvrA$ /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(105)	(121)	(13)	(21)	(75)	(97)	(17)	(23)	(8)	(12)
	102	138	15	30	85	144	17	31	10	15
156	(113)	(145)	(14)	(26)	(80)	(135)	(17)	(28)	(9)	(13)
	111	137	18	34	91	145	18	18	14	14
313	(107)	(137)	(18)	(26)	(97)	(148)	(17)	(18)	(14)	(13)
	100	152	15	21	108	197	20	23	8	11
625	(109)	(151)	(15)	(21)	(107)	(189)	(18)	(24)	(8)	(10)
	115	143	14	29	131	234	11	18	7	7
1250	(108)	(147)	(12)	(33)	(131)	(217)	(13)	(20)	(8)	(5)
	86	146	14	34	155	255	9	21	3	6
2500	(93)	(144)	(14)	(33)	(163)	(255)	(11)	(19)	(5)	(6)
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
5000	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)
Judgement	-	-	-	-	+	+	-	-	-	-
Specific Mutagenicity					35.2	96.0				
Positive Control	AF-2 (703)	2-AA (1321)	NaN ₃ (407)	2-AA (245)	AF-2 (1186)	2-AA (760)	AF-2 (443)	2-AA (481)	9-AA (239)	2-AA (156)

* Growth inhibition was observed.

Experimental Data-3

(B0109-2/2)

Conc. μ g/plate	Number of Revertants/plate	
	Base-substitution	
	TA1535	WP2 $uvrA$ /pKM101
DMSO	S9+	S9-
	(13)	(65)
	14	68
156	(15)	(70)
	10	76
313	(10)	(85)
	14	84
625	(14)	(94)
	9	116
1250	(12)	(105)
	8	136
2500	(11)	(139)
	0 *	0 *
5000	(0 *)	(0 *)
Judgement	-	+
Specific Mutagenicity		29.6
Positive Control	2-AA (240)	AF-2 (1255)

* Growth inhibition was observed.