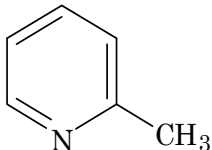


2-Methylpyridine (2-メチルピリジン)

Experimental Data-1

(B9617-1/3)

Chemical Name	: <u>2-Methylpyridine</u>
	; <u>2-Picoline</u>
	<u>α-Picoline</u>
Molecular Weight	; 93.13
Melting Point	; -70 °C[Aldrich]
Boiling Point	; 128-129°C[Aldrich]
Flashing Point	; 28 °C[CHCD]
Molecular Formula	; C ₆ H ₇ N
Chemical Structure	
CAS No.	; 109-06-8
MITI No.	; (5)-711
ML No.	; -
Specified Chemical Substances	; -
Source of Substance	; Tokyo Kasei Kogyo Co., Ltd.
Lot No.	; AY01
Purity	; 99.2%
Vehicle	; H ₂ O

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
H ₂ O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(138)	(133)	(9)	(13)	(19)	(20)	(12)	(22)	(4)
1 .22	127	149	14	10	11	17	13	25	6	7
	137	122	7	6	20	17	18	24	6	8
	(132)	(136)	(11)	(8)	(16)	(17)	(16)	(25)	(6)	(8)
4 .88	124	153	6	10	11	22	14	16	1	11
	131	141	11	14	18	23	13	16	7	7
	(128)	(147)	(9)	(12)	(15)	(23)	(14)	(16)	(4)	(9)
19 .5	137	135	5	8	17	15	20	24	7	11
	134	138	6	9	20	11	14	32	3	9
	(136)	(137)	(6)	(9)	(19)	(13)	(17)	(28)	(5)	(10)
78 .1	113	137	5	8	17	20	13	21	2	11
	119	144	5	8	11	16	15	33	3	8
	(116)	(141)	(5)	(8)	(14)	(18)	(14)	(27)	(3)	(10)
313	120	133	2	6	10	16	9	21	7	6
	111	135	7	6	15	17	14	28	3	9
	(116)	(134)	(5)	(6)	(13)	(17)	(12)	(25)	(5)	(8)
1250	119	111	6	13	8	21	10	31	5	9
	117	122	8	8	9	26	14	17	3	8
	(118)	(117)	(7)	(11)	(9)	(24)	(12)	(24)	(4)	(9)
5000	113	116	9	2	28	17	13	23	2	3
	117	115	9	10	13	21	20	25	6	13
	(115)	(116)	(9)	(6)	(21)	(19)	(17)	(24)	(4)	(8)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (684)	2-AA (1209)	NaN ₃ (251)	2-AA (218)	AF-2 (268)	2-AA (1095)	AF-2 (416)	2-AA (428)	9-AA (756)	2-AA (138)

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

Experimental Data-2

(B9617-2/3)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 $uvrA$		TA98		TA1537	
H ₂ O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(142)	(139)	(8)	(10)	(20)	(27)	(14)	(21)	(6)	(9)
313	150	144	5	6	14	28	11	15	6	6
	145	113	8	5	15	36	14	21	3	5
	(148)	(129)	(7)	(6)	(15)	(32)	(13)	(18)	(5)	(6)
625	155	128	7	8	20	24	11	13	5	9
	145	138	7	7	14	16	9	17	3	7
	(150)	(133)	(7)	(8)	(17)	(20)	(10)	(15)	(4)	(8)
1250	142	126	15	13	24	25	15	18	8	13
	109	119	6	7	17	25	7	15	6	8
	(126)	(123)	(11)	(10)	(21)	(25)	(11)	(17)	(7)	(11)
2500	146	134	8	7	22	30	13	26	3	9
	113	123	10	7	15	13	13	24	6	9
	(130)	(129)	(9)	(7)	(19)	(22)	(13)	(25)	(5)	(9)
5000	136	109	3	15	9	16	13	25	5	3
	107	116	5	3	16	33	10	22	3	14
	(122)	(113)	(4)	(9)	(13)	(25)	(12)	(24)	(4)	(9)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (550)	2-AA (1018)	NaN ₃ (290)	2-AA (245)	AF-2 (220)	2-AA (1027)	AF-2 (423)	2-AA (431)	9-AA (687)	2-AA (156)

Experimental Data-3

Conc. μ g/plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2 $uvrA/pKM101$	
H ₂ O	S9-	S9+	S9-	S9+	S9-	S9+
		(266)	(344)	(315)	(324)	(37)
19 .5	273	310	348	336	45	61
	287	326	353	326	36	81
	(280)	(318)	(351)	(331)	(41)	(71)
78 .1	279	335	343	317	40	87
	242	341	316	322	37	92
	(261)	(338)	(330)	(320)	(39)	(90)
313	271	304	311	310	53	82
	252	305	303	319	39	78
	(262)	(305)	(307)	(315)	(46)	(80)
1250	266	352	320	349	44	59
	282	338	311	317	60	84
	(274)	(345)	(316)	(333)	(52)	(72)
5000	227	314	282	285	36	66
	249	301	298	258	51	66
	(238)	(308)	(290)	(272)	(44)	(66)
Judgement	-	-	-	-	-	-
Specific Mutagenicity						
Positive Control	BLM (634)	2-AA (1220)	PA (1375)	2-AA (1300)	AF-2 (909)	2-AA (1004)

Experimental Data-4

(B9617-3/3)

Conc. μ g/plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2 $uvrA/pKM101$	
H ₂ O	S9-	S9+	S9-	S9+	S9-	S9+
		(211)	(266)	(290)	(270)	(46)
313	214	271	284	252	40	76
	193	269	305	282	52	75
	(204)	(270)	(295)	(267)	(46)	(76)
625	241	295	260	272	53	60
	223	250	299	250	53	72
	(232)	(273)	(280)	(261)	(53)	(66)
1250	228	255	294	282	37	61
	193	291	233	255	49	63
	(211)	(273)	(264)	(269)	(43)	(62)
2500	212	263	249	243	63	69
	226	268	259	258	53	62
	(219)	(266)	(254)	(251)	(58)	(66)
5000	215	255	280	247	39	47
	211	247	245	260	30	63
	(213)	(251)	(263)	(254)	(35)	(55)
Judgement	-	-	-	-	-	-
Specific Mutagenicity						
Positive Control	BLM (603)	2-AA (1297)	PA (2242)	2-AA (1420)	AF-2 (1208)	2-AA (864)