

Experimental Data-1

(B9903-1/2)

1-Amino-2-propanol (1-アミノ-2-プロパノール)

Chemical Name	: <u>1-Amino-2-propanol</u>
Synonym	: <u>Isopropanolamine</u>
Molecular Weight	: 75.11
Melting Point	: -2°C[Aldrich]
Boiling Point	: 160°C[Aldrich]
Flashing Point	: 75°C[CHCD]
Molecular Formular:	C ₃ H ₉ NO
Chemical Structure:	$\begin{array}{c} \text{CH}_3 - \text{CH} - \text{CH}_2 - \text{NH}_2 \\ \\ \text{OH} \end{array}$
CAS No.	: 78-96-6
METI No.	: (2)-323
MHLW No.	: -
Specified Chemical Substances:	-
Source of Substance:	Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: FHE01
Purity	: >99%
Vehicle	: Distilled H ₂ O

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
H ₂ O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(107)	(134)	(9)	(9)	(70)	(102)	(18)	(28)	(11)
1.22	135	146	2	14	77	109	21	22	8	10
	(132)	(140)	(4)	(12)	(81)	(106)	(22)	(27)	(11)	(12)
4.88	127	148	11	3	74	108	21	16	10	9
	(129)	(141)	(9)	(6)	(75)	(108)	(20)	(20)	(11)	(13)
19.5	92	127	1	5	63	97	23	25	10	13
	(109)	(131)	(2)	(6)	(70)	(109)	(23)	(26)	(9)	(11)
78.1	145	127	2	6	81	114	18	22	8	10
	(140)	(126)	(5)	(6)	(77)	(113)	(20)	(26)	(9)	(9)
313	141	131	6	13	60	115	18	21	10	15
	(136)	(133)	(7)	(13)	(76)	(118)	(17)	(24)	(11)	(12)
1250	121	121	10	13	64	109	22	14	7	17
	(130)	(129)	(11)	(10)	(65)	(103)	(23)	(18)	(6)	(16)
5000	99 *	109 *	5 *	6 *	24 *	57 *	16 *	15 *	1 *	2 *
	(102 *)	(105 *)	(3 *)	(7 *)	(28 *)	(64 *)	(12 *)	(11 *)	(4 *)	(3 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (588)	2-AA (1270)	NaN ₃ (435)	2-AA (301)	AF-2 (845)	2-AA (760)	AF-2 (548)	2-AA (494)	9-AA (414)	2-AA (209)

* Growth inhibition was observed.

Mutagenicity in Bacterial Test: Negative

IARC Evaluation : not yet cited

Experimental Data-2

(B9903-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
H ₂ O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(123)	(147)	(10)	(8)	(69)	(99)	(20)	(24)	(11)	(14)
78.1	139	119	9	6	59	87	17	25	7	13
	121	129	13	9	67	100	13	33	17	13
	(130)	(124)	(11)	(8)	(63)	(94)	(15)	(29)	(12)	(13)
156	107	135	6	8	70	108	17	31	16	20
	135	155	8	7	89	115	17	29	13	22
	(121)	(145)	(7)	(8)	(80)	(112)	(17)	(30)	(15)	(21)
313	127	131	9	9	75	107	21	18	10	17
	105	137	14	2	71	105	34	25	10	15
	(116)	(134)	(12)	(6)	(73)	(106)	(28)	(22)	(10)	(16)
625	109	139	3	8	90	117	16	28	9	16
	111	133	10	8	72	106	13	22	11	20
	(110)	(136)	(7)	(8)	(81)	(112)	(15)	(25)	(10)	(18)
1250	116	138	10	9	75	101	26	23	16	17
	138	123	14	6	72	106	28	18	14	13
	(127)	(131)	(12)	(8)	(74)	(104)	(27)	(21)	(15)	(15)
2500	85 *	180 *	1 *	10 *	62 *	111 *	8 *	32 *	3 *	9 *
	94 *	146 *	6 *	6 *	60 *	104 *	8 *	25 *	3 *	17 *
	(90 *)	(163 *)	(4 *)	(8 *)	(61 *)	(108 *)	(8 *)	(29 *)	(3 *)	(13 *)
5000	84 *	76 *	2 *	8 *	34 *	77 *	8 *	14 *	5 *	3 *
	90 *	85 *	5 *	7 *	36 *	61 *	8 *	9 *	7 *	7 *
	(87 *)	(81 *)	(4 *)	(8 *)	(35 *)	(69 *)	(8 *)	(12 *)	(6 *)	(5 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (702)	2-AA (1460)	NaN ₃ (434)	2-AA (280)	AF-2 (1000)	2-AA (901)	AF-2 (513)	2-AA (497)	9-AA (483)	2-AA (204)

* Growth inhibition was observed.