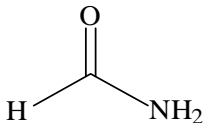


Chemical Name	: <u>Formamide</u>
Synonym	: <u>Methanamide</u> <u>Carbamaldehyde</u> キ酸アミド
Molecular Weight	: 45.04
Melting Point	: 2-3°C[Aldrich]
Boiling Point	: 210°C[Aldrich]
Flashing Point	: 154°C[Aldrich]
Molecular Formula	: CH ₃ NO
Chemical Structure	
CAS No.	: 75-12-7
MITI No.	: (2)-168
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: GE01
Purity	: >99%
Vehicle	: Distilled H ₂ O

Mutagenicity in Bacterial Test ; Neagative

IARC Evaluation ; not yet cited

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+
		(149)	(148)	(12)	(10)	(68)	(84)	(15)	(22)	(8)
1 .22	150	141	11	7	48	82	15	21	7	14
	163 (157)	149 (145)	8 (10)	7 (7)	63 (56)	78 (80)	11 (13)	29 (25)	6 (7)	11 (13)
4 .88	156	149	9	8	63	79	11	29	7	13
	160 (158)	135 (142)	11 (10)	10 (9)	62 (63)	91 (85)	18 (15)	26 (28)	3 (5)	14 (14)
19 .5	157	150	9	13	46	77	18	26	7	14
	137 (147)	173 (162)	17 (13)	9 (11)	70 (58)	83 (80)	20 (19)	29 (28)	7 (7)	6 (10)
78 .1	157	143	7	13	63	82	21	17	11	16
	153 (155)	167 (155)	7 (7)	7 (10)	67 (65)	90 (86)	16 (19)	28 (23)	3 (7)	16 (16)
313	152	169	11	8	91	82	16	26	5	13
	116 (134)	158 (164)	8 (10)	10 (9)	60 (76)	69 (76)	16 (16)	18 (22)	5 (5)	10 (12)
1250	131	163	7	6	62	79	22	15	6	9
	162 (147)	134 (149)	8 (8)	9 (8)	62 (62)	78 (79)	20 (21)	30 (23)	10 (8)	8 (9)
5000	142	141	11	7	66	87	13	18	10	9
	136 (139)	142 (142)	11 (11)	7 (7)	60 (63)	83 (85)	8 (11)	29 (24)	9 (10)	14 (12)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (704)	2-AA (1232)	NaN ₃ (506)	2-AA (320)	AF-2 (1400)	2-AA (1164)	AF-2 (536)	2-AA (459)	9-AA (715)	2-AA (239)

Experimental Data-2

(B9823-2/2)

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+
	(131)	(142)	(9)	(10)	(50)	(74)	(16)	(24)	(6)	(9)
	126	136	13	10	20	85	11	15	5	7
313	(126)	(152)	(12)	(11)	(30)	(85)	(11)	(18)	(5)	(8)
	127	117	7	7	45	81	23	18	5	6
625	(126)	(130)	(8)	(9)	(47)	(85)	(17)	(25)	(7)	(7)
	145	165	9	8	44	79	14	17	3	8
1250	(131)	(152)	(8)	(11)	(51)	(81)	(15)	(20)	(5)	(7)
	112	131	9	7	45	63	16	23	7	9
2500	(118)	(133)	(10)	(9)	(49)	(67)	(12)	(22)	(6)	(8)
	122	119	11	6	60	87	20	22	8	10
5000	(122)	(118)	(11)	(7)	(54)	(83)	(17)	(23)	(7)	(8)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 (712)	2-AA (1338)	NaN ₃ (479)	2-AA (296)	AF-2 (995)	2-AA (1028)	AF-2 (538)	2-AA (455)	9-AA (577)	2-AA (234)