

Experimental Data-1

(B0107-1/2)

Vinyl acetate (酢酸ビニル)

Chemical Name	: Vinyl acetate
Synonym	: Acetic acid vinyl ester Acetic acid ethenyl ester Ethenyl acetate
Molecular Weight	: 86.09
Melting Point	: -93°C [CHCD]
Boiling Point	: 72°C [CHCD]
Flashing Point	: -8°C(c.c.)[CHCD]
Molecular Formula	: C ₄ H ₆ O ₂
Chemical Structure:	$\text{CH}_3 - \overset{\text{O}}{\parallel} \text{C} - \text{O} - \text{CH} = \text{CH}_2$
CAS No.	: 108-05-4
METI No.	: (2)-728
MHLW No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: GJ01
Purity	: 99.0%
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+
		(111)	(129)	(11)	(13)	(82)	(111)	(15)	(28)	(8)
1 .22	111 (111)	126 (121)	9 (12)	13 (14)	72 (74)	106 (101)	13 (15)	18 (22)	9 (8)	5 (7)
4 .88	112 (109)	129 (138)	15 (12)	8 (11)	90 (78)	119 (111)	20 (17)	16 (20)	2 (4)	9 (9)
19 .5	130 (125)	131 (139)	14 (11)	11 (9)	90 (90)	114 (112)	7 (11)	28 (26)	11 (10)	7 (8)
78 .1	100 (104)	120 (109)	8 (10)	11 (13)	85 (88)	105 (113)	7 (14)	23 (24)	7 (6)	15 (12)
313	121 (117)	128 (133)	18 (17)	9 (8)	109 (101)	99 (100)	14 (18)	26 (20)	3 (5)	5 (6)
1250	124 (116)	111 (114)	16 (13)	13 (10)	97 (94)	111 (103)	21 (20)	29 (27)	2 (4)	7 (8)
5000	107 (120)	164 (161)	11 (11)	14 (14)	83 (96)	143 (139)	11 (17)	45 (44)	8 (8)	5 (7)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (707)	2-AA (1297)	NaN ₃ (377)	2-AA (226)	AF-2 (1279)	2-AA (754)	AF-2 (416)	2-AA (478)	9-AA (213)	2-AA (232)

Mutagenicity in Bacterial Test: Negative

IARC Evaluation : Group 2B

Experimental Data-2

(B0107-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(113)	(137)	(11)	(14)	(76)	(112)	(18)	(29)	(9)	(8)
	106	115	15	11	69	111	21	23	8	11
313	(118)	(128)	(16)	(14)	(63)	(120)	(17)	(23)	(8)	(11)
	97	123	14	13	75	97	15	21	9	7
625	(106)	(126)	(15)	(14)	(77)	(104)	(18)	(20)	(9)	(8)
	116	137	11	11	86	109	17	25	7	9
1250	(108)	(129)	(14)	(14)	(77)	(113)	(17)	(25)	(7)	(10)
	128	120	9	13	74	96	15	36	8	14
2500	(122)	(122)	(11)	(16)	(68)	(108)	(15)	(40)	(9)	(11)
	126	166	16	13	72	117	14	25	8	10
5000	(125)	(154)	(14)	(12)	(72)	(125)	(14)	(35)	(10)	(10)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 (749)	2-AA (1299)	NaN ₃ (371)	2-AA (244)	AF-2 (1295)	2-AA (920)	AF-2 (401)	2-AA (495)	9-AA (224)	2-AA (215)