Acetaldehyde (アセトアルデヒド)

Chemical Name: Acetaldehyde
Synonym Ethylaldehyde
Molecular weight: 44.05
Melting point: -123.3℃
Boiling point: 20.8℃
Flashing point: -37.8℃
Chemical Structure

CH_3CHO

CAS No: 75-07-0
MITI No: (2)-485
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot.No.: STN5972
Purity:
Vehicle: DMSO

Mutagenicity
in Bacterial Test: Negative

IARC Evaluation: G 2B

Experimental Data

Number of Revertants/plate

Con. μg/plate	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(103)	(108)	(14)	(13)	(40)	(52)	(15)	(22)	(7)	(8)	(19)	(20)
	96	116	18	13	40	52	18	26	7	10	23	26
	109	105	13	9	37	49	21	22	5	11	15	18
20	(103)	(111)	(16)	(11)	(39)	(51)	(20)	(24)	(6)	(11)	(19)	(22)
	105	91	21	10	42	57	19	20	9	12	22	23
	99	100	14	11	40	53	13	34	6	5	23	22
50	(102)	(96)	(18)	(11)	(41)	(55)	(16)	(27)	(8)	(9)	(23)	(23)
	99	99	20	11	37	41	13	20	6	11	23	19
	111	114	17	13	56	43	15	21	5	10	19	23
100	(105)	(107)	(19)	(12)	(47)	(42)	(14)	(21)	(6)	(11)	(21)	(21)
	111	97	20	9	42	52	12	20	4	8	21	21
	94	107	20	9	45	45	13	18	5	4	20	17
200	(103)	(102)	(20)	(9)	(44)	(49)	(13)	(19)	(5)	(6)	(21)	(19)
	95	104	14	11	46	45	15	17	4	5	16	22
	100	113	15	8	41	59	14	22	8	8	16	26
500	(98)	(109)	(15)	(10)	(44)	(52)	(15)	(20)	(6)	(7)	(16)	(24)
	95	97	17	10	38	51	17	32	6	7	19	15
	93	97	17	11	44	51	19	23	5	9	18	31
1000	(94)	(97)	(17)	(11)	(41)	(51)	(18)	(28)	(6)	(8)	(19)	(24)
	125	104	22	8	39	48	15	20	5	5	25	30
	91	90	20	14	35	59	22	28	3	7	14	15
2000	(108)	(97)	(21)	(11)	(37)	(54)	(19)	(24)	(4)	(6)	(20)	(23)
	88	99	12	3*	29	44	0*	30	6	4	0*	20
	92	90	21	4*	34	47	0*	20	6	7	0*	26
5000	(90)	(95)	(17)	(4*)	(32)	(46)	(0*)	(25)	(6)	(6)	(0*)	(23)
Judgement	−	−	−	−	−	−	−	−	−	−	−	−
Specific Mutagenicity												
Positive Control	AF2	2AA 0.5	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(447)	(753)	(233)	(225)	(336)	(927)	(331)	(740)	(821)	(188)	(294)	(831)