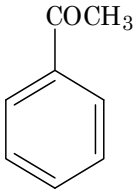


Acetophenone (アセトフェノン)

Experimental Data-1

(B9703-1/2)

Chemical Name	; <u>Acetophenone</u>
Synonym	; <u>Acetylbenzene</u> <u>1-Phenylethanone</u> <u>Methyl phenyl ketone</u>
Molecular Weight	; 120.15
Melting Point	; 19-20°C[Aldrich]
Boiling Point	; 202°C[Aldrich]
Flashing Point	; 82°C[Aldrich]
Molecular Formula	; C ₈ H ₈ O
Chemical Structure	
CAS No.	; 98-86-2
MITI No.	; (3)-1231
ML No.	; -
Specified Chemical Substances	; -
Source of Substance	; Tokyo Kasei Kogyo Co., Ltd.
Lot No.	; FGF01
Purity	; >98.5%
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+
	(125)	(143)	(6)	(8)	(42)	(73)	(13)	(22)	(6)	(11)
1 .22	142 159 (151)	164 157 (161)	11 5 (8)	13 8 (11)	36 46 (41)	108 90 (99)	14 16 (15)	14 22 (18)	3 7 (5)	5 14 (10)
4 .88	160 142 (151)	152 146 (149)	9 5 (7)	8 6 (7)	46 47 (47)	86 75 (81)	13 21 (17)	28 21 (25)	3 3 (3)	6 6 (6)
19 .5	145 146 (146)	173 169 (171)	7 8 (8)	9 10 (10)	49 43 (46)	93 77 (85)	13 11 (12)	21 18 (20)	6 3 (5)	6 8 (7)
78 .1	123 142 (133)	165 143 (154)	8 5 (7)	11 9 (10)	41 41 (41)	86 89 (88)	11 15 (13)	28 16 (22)	8 3 (6)	8 6 (7)
313	146 141 (144)	139 167 (153)	10 6 (8)	10 7 (9)	46 30 (38)	81 72 (77)	22 11 (17)	22 18 (20)	3 5 (4)	10 9 (10)
1250	76 * 54 * (65 *)	133 113 (123)	2 * 11 * (7 *)	8 8 (8)	22 * 32 * (27 *)	82 51 (67)	11 * 18 * (15 *)	21 31 (26)	1 * 5 * (3 *)	9 9 (9)
5000	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (726)	2-AA (1394)	NaN ₃ (420)	2-AA (351)	AF-2 (1651)	2-AA (1105)	AF-2 (578)	2-AA (470)	9-AA (686)	2-AA (234)

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

* Growth inhibition was observed.

Experimental Data-2

(B9703-2/2)

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+
	(146)	(130)	(7)	(8)	(42)	(61)	(14)	(21)	(7)	(10)
19 .5	157	137	6	7	47	72	18	22	5	15
	151 (154)	145 (141)	9 (8)	13 (10)	45 (46)	75 (74)	14 (16)	23 (23)	5 (5)	5 (10)
39 .1	116	152	9	7	52	76	17	29	5	5
	135 (126)	121 (137)	9 (9)	7 (7)	44 (48)	83 (80)	15 (16)	26 (28)	5 (5)	9 (7)
78 .1	164	126	6	6	36	75	16	17	3	5
	153 (159)	143 (135)	9 (8)	7 (7)	38 (37)	77 (76)	6 (11)	14 (16)	6 (5)	8 (7)
156	122	129	7	14	54	60	17	25	7	6
	119 (121)	131 (130)	9 (8)	11 (13)	49 (52)	66 (63)	10 (14)	30 (28)	6 (7)	10 (8)
313	127	98	9	14	46	48	10	24	3	14
	117 (122)	120 (109)	8 (9)	10 (12)	51 (49)	51 (50)	15 (13)	23 (24)	3 (3)	7 (11)
625	135	0 *	7	0 *	55	0 *	16	0 *	7	0 *
	121 (128)	0 * (0 *)	6 (7)	0 * (0 *)	43 (49)	0 * (0 *)	15 (16)	0 * (0 *)	7 (7)	0 * (0 *)
1250	115 *	0 *	5 *	0 *	37 *	0 *	10 *	0 *	3 *	0 *
	120 * (118 *)	0 * (0 *)	6 * (6 *)	0 * (0 *)	36 * (37 *)	0 * (0 *)	14 * (12 *)	0 * (0 *)	5 * (4 *)	0 * (0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (729)	2-AA (1326)	NaN ₃ (455)	2-AA (363)	AF-2 (1176)	2-AA (1032)	AF-2 (534)	2-AA (462)	9-AA (578)	2-AA (202)