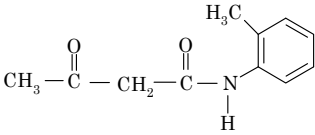


Experimental Data-1

(B9913-1/2)

2'-Methylacetoacetanilide (2'-メチルアセトアセトアニリド)

Chemical Name	; 2'-Methylacetoacetanilide
Synonym	; <i>o</i> -Acetoacetotoluidide N-Acetoacetyl 2-methylaniline
Molecular Weight	; 191.23
Melting Point	; 104-106°C [CHCD]
Boiling Point	; -
Flashing Point	; -
Molecular Formular	; C ₁₁ H ₁₃ NO ₂
Chemical Structure;	
CAS No.	; 93-68-5
METI No.	; (3)-204
MHLW No.	; -
Specified Chemical Substances;	-
Source of Substance;	Tokyo Kasei Kogyo Co., Ltd.
Lot No.	; AW01
Purity	; >98%
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+
		(108)	(125)	(13)	(9)	(72)	(105)	(16)	(28)	(10)
1 .22	99	146	20	2	69	108	3	17	6	6
	98	130	8	8	71	122	9	21	6	7
	(99)	(138)	(14)	(5)	(70)	(115)	(6)	(19)	(6)	(7)
4 .88	101	143	11	15	85	115	13	29	7	13
	107	107	10	3	76	116	20	22	6	10
	(104)	(125)	(11)	(9)	(81)	(116)	(17)	(26)	(7)	(12)
19 .5	99	120	5	9	76	139	16	28	8	14
	92	126	5	11	85	136	14	24	6	11
	(96)	(123)	(5)	(10)	(81)	(138)	(15)	(26)	(7)	(13)
78 .1	99	109	11	9	90	163	8	10	7	8
	126	102	10	5	86	127	15	16	5	6
	(113)	(106)	(11)	(7)	(88)	(145)	(12)	(13)	(6)	(7)
313	84	120	6	8	86	149	7	16	8	15
	93	137	10	8	102	160	10	26	5	6
	(89)	(129)	(8)	(8)	(94)	(155)	(9)	(21)	(7)	(11)
1250	101	100	8	2	102	127	9	29	5	7
	94	109	10	10	90	124	16	22	1	3
	(98)	(105)	(9)	(6)	(96)	(126)	(13)	(26)	(3)	(5)
5000	72	98	6	6	77	105	11	16	1	3
	75	79	10	13	66	91	10	14	2	8
	(74)	(89)	(8)	(10)	(72)	(98)	(11)	(15)	(2)	(6)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (637)	2-AA (1213)	NaN ₃ (456)	2-AA (272)	AF-2 (1033)	2-AA (887)	AF-2 (495)	2-AA (464)	9-AA (447)	2-AA (257)

Mutagenicity in Bacterial Test: Negative

IARC Evaluation ; not yet cited

Experimental Data-2

(B9913-2/2)

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+
		(106)	(126)	(11)	(10)	(69)	(105)	(15)	(24)	(10)
	108	109	6	9	85	131	10	20	7	7
	123	122	13	5	79	100	13	26	8	11
313	(116)	(116)	(10)	(7)	(82)	(116)	(12)	(23)	(8)	(9)
	82	115	1	15	93	104	10	17	8	21
	106	98	5	5	86	127	14	11	8	6
625	(94)	(107)	(3)	(10)	(90)	(116)	(12)	(14)	(8)	(14)
	84	102	8	11	94	128	17	23	2	6
	90	107	13	10	97	127	18	10	3	7
1250	(87)	(105)	(11)	(11)	(96)	(128)	(18)	(17)	(3)	(7)
	68	102	8	6	83	119	16	24	8	6
	102	92	3	7	90	109	7	13	6	10
2500	(85)	(97)	(6)	(7)	(87)	(114)	(12)	(19)	(7)	(8)
	104	85	6	13	70	87	11	21	8	2
	75	54	6	6	46	76	11	14	7	17
5000	(90)	(70)	(6)	(10)	(58)	(82)	(11)	(18)	(8)	(10)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 (799)	2-AA (1452)	NaN ₃ (471)	2-AA (264)	AF-2 (799)	2-AA (800)	AF-2 (493)	2-AA (409)	9-AA (330)	2-AA (251)