

Experimental Data-1

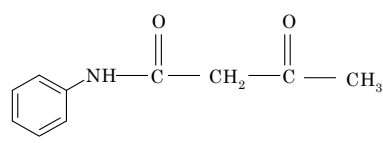
(B9904-1/2)

Acetoacetanilide (アセトアセトアニリド)

Chemical Name : Acetoacetanilide
 Synonym : 3-Oxobutyranilide
N-Acetoacetyl aniline

Molecular Weight : 177.2
 Melting Point : 86°C [CHCD]
 Boiling Point : -
 Flashing Point : 163°C(o.c.)[CHCD]
 Molecular Formular: C₁₀H₁₁NO₂

Chemical Structure:



CAS No. : 102-01-2
 METI No. : (3)-110
 MHLW No. : -
 Specified Chemical Substances: -

Source of Substance: Tokyo Kasei Kogyo Co. Ltd.
 Lot No. : GD01
 Purity : >98%

Vehicle : DMSO

Conc. μg/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)	(122)	(11)	(10)	(54)	(86)	(18)	(22)	(6)
	136	130	7	7	28	79	10	30	8	9
1 .22	(131)	(126)	(11)	(8)	(36)	(86)	(9)	(26)	(9)	(10)
	115	124	8	7	63	90	11	22	2	6
4 .88	(115)	(125)	(8)	(7)	(56)	(87)	(13)	(20)	(4)	(10)
	100	155	13	8	67	111	9	23	1	10
19 .5	(103)	(150)	(12)	(8)	(58)	(105)	(14)	(24)	(6)	(10)
	115	152	15	6	68	171	21	23	7	11
78 .1	(136)	(138)	(12)	(7)	(78)	(176)	(14)	(26)	(7)	(10)
	123	151	10	9	119	200	15	14	7	8
313	(119)	(144)	(12)	(8)	(108)	(182)	(16)	(17)	(7)	(7)
	122	146	11	7	116	162	17	15	7	6
1250	(114)	(146)	(10)	(8)	(129)	(161)	(16)	(20)	(7)	(8)
	96	120	7	10	85	153	16	26	3	7
5000	(100)	(127)	(8)	(9)	(91)	(182)	(15)	(21)	(6)	(8)
Judgement	-	-	-	-	+	+	-	-	-	-
Specific Mutagenicity					173	1150				
Positive Control	AF-2 (676)	2-AA (1395)	NaN ₃ (445)	2-AA (278)	AF-2 (773)	2-AA (939)	AF-2 (530)	2-AA (497)	9-AA (354)	2-AA (241)

Mutagenicity in Bacterial Test: Positive

IARC Evaluation : not yet cited

Experimental Data-2

(B9904-2/2)

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	(117)	(125)	(11)	(9)	(65)	(73)	(19)	(21)	(7)	(8)
78 .1	()	()	()	()	78 97 (88)	166 173 (170)	()	()	()	()
156	()	()	()	()	113 96 (105)	200 204 (202)	()	()	()	()
313	119 112 (116)	123 137 (130)	8 13 (11)	5 10 (8)	121 148 (135)	164 187 (176)	5 9 (7)	16 22 (19)	8 2 (5)	8 3 (6)
625	101 117 (109)	149 130 (140)	8 13 (11)	7 10 (9)	128 126 (127)	170 179 (175)	18 13 (16)	22 32 (27)	6 7 (7)	9 10 (10)
1250	124 101 (113)	150 109 (130)	8 9 (9)	5 8 (7)	148 149 (149)	163 167 (165)	15 11 (13)	20 18 (19)	6 8 (7)	7 8 (8)
2500	127 84 (106)	127 102 (115)	10 10 (10)	9 6 (8)	127 142 (135)	149 149 (149)	31 14 (23)	15 16 (16)	8 5 (7)	2 9 (6)
5000	99 94 (97)	104 123 (114)	18 8 (13)	7 6 (7)	94 116 (105)	141 131 (136)	16 21 (19)	28 25 (27)	9 8 (9)	7 5 (6)
Judgement	-	-	-	-	+	+	-	-	-	-
Specific Mutagenicity					224	1240				
Positive Control	AF-2 (613)	2-AA (1237)	NaN ₃ (450)	2-AA (283)	AF-2 (1090)	2-AA (1076)	AF-2 (519)	2-AA (451)	9-AA (341)	2-AA (252)