

Experimental Data-1

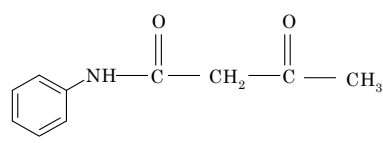
(B9904-1/2)

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 Formula: C<sub>10</sub>H<sub>11</sub>NO<sub>2</sub>

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	126	121	15	8	43	93	7	22	9	10
	( 131 )	( 126 )	( 11 )	( 8 )	( 36 )	( 86 )	( 9 )	( 26 )	( 9 )	( 10 )
	115	124	8	7	63	90	11	22	2	6
4 .88	115	126	8	7	49	84	15	17	6	13
	( 115 )	( 125 )	( 8 )	( 7 )	( 56 )	( 87 )	( 13 )	( 20 )	( 4 )	( 10 )
	100	155	13	8	67	111	9	23	1	10
19 .5	105	144	11	7	48	98	18	24	10	10
	( 103 )	( 150 )	( 12 )	( 8 )	( 58 )	( 105 )	( 14 )	( 24 )	( 6 )	( 10 )
	115	152	15	6	68	171	21	23	7	11
78 .1	157	124	8	8	87	180	6	28	6	9
	( 136 )	( 138 )	( 12 )	( 7 )	( 78 )	( 176 )	( 14 )	( 26 )	( 7 )	( 10 )
	123	151	10	9	119	200	15	14	7	8
313	115	137	13	6	97	163	16	20	6	6
	( 119 )	( 144 )	( 12 )	( 8 )	( 108 )	( 182 )	( 16 )	( 17 )	( 7 )	( 7 )
	122	146	11	7	116	162	17	15	7	6
1250	106	146	8	8	141	159	14	24	6	9
	( 114 )	( 146 )	( 10 )	( 8 )	( 129 )	( 161 )	( 16 )	( 20 )	( 7 )	( 8 )
	96	120	7	10	85	153	16	26	3	7
5000	104	134	8	7	96	211	14	15	8	8
	( 100 )	( 127 )	( 8 )	( 9 )	( 91 )	( 182 )	( 15 )	( 21 )	( 6 )	( 8 )
Judgement	-	-	-	-	+	+	-	-	-	-
Specific Mutagenicity					173	1150				
Positive Control	AF-2 ( 676 )	2-AA ( 1395 )	NaN <sub>3</sub> ( 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 <sub>3</sub> ( 450 )	2-AA ( 283 )	AF-2 ( 1090 )	2-AA ( 1076 )	AF-2 ( 519 )	2-AA ( 451 )	9-AA ( 341 )	2-AA ( 252 )