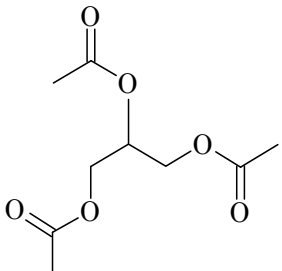


## 1.2.3-Propanetriyl triacetate (三酢酸=1,2,3-プロパントリイル)

Chemical Name	: <u>1,2,3-Propanetriyl triacetate</u>
Synonym	: <u>Triacetin</u> <u>Glyceryl triacetate</u> <u>Triacetyl glycerine</u>
Molecular Weight	: 218.21
Melting Point	: 3 °C[CHCD]
Boiling Point	: 258-259 °C[CHCD]
Flashing Point	: 137.8°C[Aldrich]
Molecular Formula	: C <sub>9</sub> H <sub>14</sub> O <sub>6</sub>
Chemical Structure:	
CAS No.	: 102-76-1
METI No.	: (2)-666, (2)-753
MHLW No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: GG01
Purity	: >98%
Vehicle	: DMSO

Mutagenicity in Bacterial Test: Negative

IARC Evaluation : not yet cited

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		( 105 )	( 117 )	( 9 )	( 7 )	( 73 )	( 97 )	( 19 )	( 30 )	( 7 )
1 .22	104	117	15	11	93	109	18	44	8	5
	93	116	5	7	99	130	21	28	8	9
	( 99 )	( 117 )	( 10 )	( 9 )	( 96 )	( 120 )	( 20 )	( 36 )	( 8 )	( 7 )
4 .88	111	99	11	9	87	130	26	24	3	5
	97	114	10	9	99	116	18	24	5	8
	( 104 )	( 107 )	( 11 )	( 9 )	( 93 )	( 123 )	( 22 )	( 24 )	( 4 )	( 7 )
19 .5	105	128	10	11	106	130	22	41	7	11
	105	107	15	7	85	117	24	28	9	10
	( 105 )	( 118 )	( 13 )	( 9 )	( 96 )	( 124 )	( 23 )	( 35 )	( 8 )	( 11 )
78 .1	101	91	8	10	84	109	25	21	8	8
	92	120	13	3	75	117	17	26	7	9
	( 97 )	( 106 )	( 11 )	( 7 )	( 80 )	( 113 )	( 21 )	( 24 )	( 8 )	( 9 )
313	91	92	6	3	83	117	25	23	14	10
	105	96	10	7	85	124	21	39	6	5
	( 98 )	( 94 )	( 8 )	( 5 )	( 84 )	( 121 )	( 23 )	( 31 )	( 10 )	( 8 )
1250	113	115	8	16	79	100	16	38	3	13
	108	99	5	5	81	121	18	31	9	6
	( 111 )	( 107 )	( 7 )	( 11 )	( 80 )	( 111 )	( 17 )	( 35 )	( 6 )	( 10 )
5000	96	119	7	11	67	92	14	29	2	10
	112	116	7	5	69	85	18	20	9	5
	( 104 )	( 118 )	( 7 )	( 8 )	( 68 )	( 89 )	( 16 )	( 25 )	( 6 )	( 8 )
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 ( 763 )	2-AA ( 1427 )	NaN <sub>3</sub> ( 404 )	2-AA ( 257 )	AF-2 ( 1334 )	2-AA ( 1253 )	AF-2 ( 493 )	2-AA ( 517 )	9-AA ( 321 )	2-AA ( 224 )

Experimental Data-2

(B9906-2/2)

Conc. $\mu$ 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	( 123 )	( 110 )	( 14 )	( 7 )	( 71 )	( 103 )	( 16 )	( 28 )	( 9 )	( 13 )
	112	115	9	8	89	106	16	26	9	17
313	( 109 )	( 121 )	( 12 )	( 8 )	( 87 )	( 102 )	( 12 )	( 25 )	( 9 )	( 15 )
	105	126	15	7	85	97	7	23	8	13
625	( 118 )	( 101 )	( 9 )	( 10 )	( 92 )	( 96 )	( 16 )	( 31 )	( 11 )	( 15 )
	116	96	10	9	85	104	16	25	9	18
1250	( 104 )	( 106 )	( 10 )	( 8 )	( 87 )	( 96 )	( 17 )	( 28 )	( 5 )	( 9 )
	119	106	8	11	98	87	16	36	13	11
2500	( 102 )	( 120 )	( 19 )	( 11 )	( 88 )	( 106 )	( 16 )	( 23 )	( 9 )	( 10 )
	105	119	14	8	75	92	16	24	6	7
5000	( 108 )	( 105 )	( 9 )	( 11 )	( 74 )	( 103 )	( 17 )	( 25 )	( 7 )	( 14 )
	102	93	5	8	98	100	17	31	3	10
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 ( 771 )	2-AA ( 1433 )	NaN <sub>3</sub> ( 482 )	2-AA ( 308 )	AF-2 ( 1321 )	2-AA ( 776 )	AF-2 ( 484 )	2-AA ( 428 )	9-AA ( 333 )	2-AA ( 241 )