

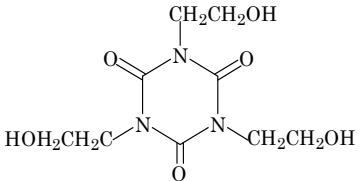
1,3,5-Tris(2-hydroxyethyl)-1,3,5-triazine

2,4,6(1H,3H,5H)-trione

(1,3,5-トリス(2-ヒドロキシエチル)-1,3,5-トリアジン-2,4,6(1H,3H,5H)-トリアン

Experimental Data-1

(B9714-1/2)

Chemical Name	: <u>1,3,5-Tris(2-hydroxyethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione</u>
Synonym	: <u>Tris(2-hydroxyethyl)isocyanuric acid</u> <u>Tris(2-hydroxyethyl)-1,3,5-triazinetriane</u> <u>トリス-(2-ヒドロキシエチル)イソシアヌレート</u> <u>1,3,5-トリス-(2'-ヒドロキシエチル)イソシアヌル酸</u>
Molecular Weight	: 261.23
Melting Point	: 135~136°C [CHCD]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C <sub>9</sub> H <sub>15</sub> N <sub>3</sub> O <sub>6</sub>
Chemical Structure	
CAS No.	: 839-90-7
MITI No.	: (2)-1051,(2)-1058
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: GA01
Purity	: >98%
Vehicle	: Distilled H <sub>2</sub> O

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
H <sub>2</sub> O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	( 127 )	( 153 )	( 8 )	( 13 )	( 43 )	( 71 )	( 19 )	( 24 )	( 10 )	( 10 )
1 .22	142	152	6	13	71	70	16	32	2	8
	137	137	8	6	40	99	25	30	10	15
4 .88	( 140 )	( 145 )	( 7 )	( 10 )	( 56 )	( 85 )	( 21 )	( 31 )	( 6 )	( 12 )
	159	142	9	9	40	72	24	28	5	8
19 .5	148	143	9	11	40	75	23	37	3	7
	( 154 )	( 143 )	( 9 )	( 10 )	( 40 )	( 74 )	( 24 )	( 33 )	( 4 )	( 8 )
78 .1	119	166	10	10	52	84	17	13	8	3
	126	150	8	9	41	77	23	29	8	8
313	( 123 )	( 158 )	( 9 )	( 10 )	( 47 )	( 81 )	( 20 )	( 21 )	( 8 )	( 6 )
	131	156	5	15	37	70	15	26	5	7
1250	143	152	9	18	57	97	11	38	5	10
	( 137 )	( 154 )	( 7 )	( 17 )	( 47 )	( 84 )	( 13 )	( 32 )	( 5 )	( 9 )
5000	119	181	13	17	31	79	21	38	6	10
	128	151	9	9	61	92	15	28	6	10
Judgement	( 124 )	( 166 )	( 11 )	( 13 )	( 46 )	( 86 )	( 18 )	( 33 )	( 6 )	( 10 )
	144	155	10	5	63	71	18	28	3	8
Specific Mutagenicity	123	116	13	5	49	71	29	28	5	10
	( 134 )	( 136 )	( 12 )	( 5 )	( 56 )	( 71 )	( 24 )	( 28 )	( 4 )	( 9 )
Positive Control	136	149	8	11	51	76	21	29	8	1
	158	142	6	15	71	72	20	14	5	15
Control	( 147 )	( 146 )	( 7 )	( 13 )	( 61 )	( 74 )	( 21 )	( 22 )	( 7 )	( 8 )
	-	-	-	-	-	-	-	-	-	-
AF-2	2-AA	NaN <sub>3</sub>	2-AA	AF-2	2-AA	AF-2	2-AA	9-AA	2-AA	
( 623 )	( 1259 )	( 362 )	( 306 )	( 869 )	( 948 )	( 445 )	( 462 )	( 540 )	( 168 )	

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

Experimental Data-2

(B9714-2/2)

Conc. $\mu$ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
H <sub>2</sub> O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	( 127 )	( 139 )	( 9 )	( 14 )	( 39 )	( 56 )	( 22 )	( 33 )	( 7 )	( 13 )
	149	130	9	15	28	48	25	32	10	16
313	130	116	13	15	34	56	33	30	8	3
	( 140 )	( 123 )	( 11 )	( 15 )	( 31 )	( 52 )	( 29 )	( 31 )	( 9 )	( 10 )
	153	155	11	11	31	62	28	38	9	10
625	159	129	10	15	36	63	17	34	8	13
	( 156 )	( 142 )	( 11 )	( 13 )	( 34 )	( 63 )	( 23 )	( 36 )	( 9 )	( 12 )
	119	112	15	10	28	70	26	33	11	9
1250	135	111	11	16	41	38	25	44	10	15
	( 127 )	( 112 )	( 13 )	( 13 )	( 35 )	( 54 )	( 26 )	( 39 )	( 11 )	( 12 )
	106	128	9	20	31	67	24	44	14	15
2500	139	153	11	16	40	66	24	30	7	15
	( 123 )	( 141 )	( 10 )	( 18 )	( 36 )	( 67 )	( 24 )	( 37 )	( 11 )	( 15 )
	142	126	14	16	29	70	32	43	10	11
5000	116	122	10	8	40	49	29	32	13	18
	( 129 )	( 124 )	( 12 )	( 12 )	( 35 )	( 60 )	( 31 )	( 38 )	( 12 )	( 15 )
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 ( 598 )	2-AA ( 1197 )	NaN <sub>3</sub> ( 385 )	2-AA ( 337 )	AF-2 ( 1034 )	2-AA ( 1070 )	AF-2 ( 462 )	2-AA ( 456 )	9-AA ( 510 )	2-AA ( 176 )