

1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1*H*,3*H*,5*H*)-trione

(C9806-1/2)

1,3,5-トリス(オキシラニルメチル)-1,3,5-トリアジン-2,4,6(1*H*,3*H*,5*H*)-トリオン

Experimental Data (Short Treatments)

Chemical Name : 1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1*H*,3*H*,5*H*)-trione

Synonym : Tris(2,3-epoxypropyl) isocyanurate
1,3,5-Trisglycidyl-isocyanuric acid
Triglycidyl isocyanurate
1,3,5-トリス(2,3-エポキシプロピル)
ヘキサヒドロ-1,3,5-トリアジン-2,4,6-トリオン
1,3,5-トリスグリシジルイソシアヌル酸
トリグリシジルイソシアヌラート

Molecular Weight : 297.27
Melting Point : 116°C(decomposition)
Boiling Point : -
Flashing Point : -
Molecular Formula : C₁₂H₁₅N₃O₆

Chemical Structure

CAS No. : 2451-62-9
MITI No. : (5)-1052
ML No. : -
Specified Chemical Substances : -

Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot No. : GB01
Purity : 98.3%

Vehicle : Distilled H₂O

Treatment Time (h)	S9 mix	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap g (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)				
			No. of Metaphase	Chromatid (ctb, cte)		Chromosome (csb, cse)		Others	Total			No. of Metaphase	Poly-ploid	Others	Total	
6-18	-	[H ₂ O] 10%	200	0	0	0	0	0	0	0	0.5	100	200	2	0	2
		0.00010	200	1	1.5	0	0	0	2.5	0.5	96	200	2	0	2	
		0.00020	200	4	12.5	0	0	0	16.5	0	101	200	1	0	1	
		0.00040	200	4	40	0	0	0	42	0.5	105	200	1.5	0	1.5	
		0.00080	200	10	74.5	0	0	0	76.5	0.5	96	200	0.5	0	0.5	
		0.0016	161	8.7	95	0	0	0	96.9	0.6	103	161	0	0	0	
		[MMC] 0.00012	200	8	50.5	0	0	0	54.5	1.5	-	200	0.5	0	0.5	
6-18	+	[H ₂ O] 10%	200	0	1	0	0	0	1	0.5	100	200	1.5	0	1.5	
		0.013	200	0	0	0	0	0	0	0	102	200	0.5	0	0.5	
		0.025	200	1	2.5	0	0	0	3	0	97	200	1	0	1	
		0.050	200	5.5	76	0	0	0	77	0.5	108	200	0	0	0	
		0.075	143	7.7	94.4	0	0	0	94.4	0.7	84	143	0	0	0	
		0.10	55	14.6	96.4	0	0	0	100	0	83	55	0	0	0	
		[B[a]P] 0.01	200	3	24	0	0	0	25.5	1	-	200	1.5	0	1.5	

※ Test conditions: S9mix ; Treatment time ; 6h, Recovery time ; 18h

Judgement for Chromosomal Aberration in CHL ; Positive

IARC Evaluation : not yet cited

Experimental Data without Metabolic Activation (Continuous Treatments)

Treatment Time (h)	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap g (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)			
		No. of Metaphase	Chromatid		Chromosome		Others	Total			No. of Metaphase	Poly-ploid	Others	Total
			ctb	cte	csb	cse								
24-0	[H ₂ O] 10%	200	0	0	0	0	0	0	1.5	100	200	0.5	0	0.5
	0.000038	200	1	1	0	0	0	2	0.5	95	200	2.5	0	2.5
	0.000075	200	1.5	7.5	0.5	0	0	9.5	0.5	116	200	0.5	0	0.5
	0.00015	200	3	21	0	0	0	23.5	0	106	200	1	0	1
	0.00030	200	12	47.5	0	0	0	56	1	119	200	2	0	2
	0.00060	200	12	75.5	0	0	0	80.5	0.5	111	200	0	0	0
	[MMC] 0.00004	200	6	31	0	0	0	35.5	0.5	—	200	1.5	0	1.5
48-0	[H ₂ O] 10%	200	0	0.5	0	0	0	0.5	0	100	200	1	0	1
	0.000038	200	0	0.5	0	0	0	0.5	0	119	200	0	0	0
	0.000075	200	0	0.5	0	0	0	0.5	0	118	200	3	0	3
	0.00015	200	0	2	0	0	0	2	0	108	200	1	0	1
	0.00030	200	6.5	28.5	0.5	0	0	33.5	1	117	200	1.5	0	1.5
	0.00060	200	12.5	83	0	1	0	86.5	1	105	200	1.5	0	1.5
	[MMC] 0.00004	200	14.5	51	0.5	1	0	56	2	—	200	0	0	0

※ Test conditions: Treatment time ; 24h or 48h, Recovery time ; 0h