

1, 2, 3-Trichloropropane (1, 2, 3-トリクロロプロパン)

Chemical Name:	1, 2, 3-Trichloropropane
Synonym	Propane, 1, 2, 3-trichloro-
Molecular weight:	147.4
Melting point:	-14.7°C
Boiling point:	156-156.2°C
Flashing point:	82°C
Chemical Structure	
$\text{CH}_2\text{C}\ell\text{CHC}\ell\text{CH}_2\text{C}\ell$	
CAS No:	96-18-4
MITI No:	(2)-83
ML No:	2-(13)-52
Source of Substance:	Tokyo Kasei Kogyo Co. Ltd
Lot. No:	DQ01
Purity:	%
Vehicle:	1% CMC

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation: not yet cited

Experimental Data

Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)									
					Gap	CTB	CTE	CSB		CSE		Total	Judge	
								-G	+G	-G	+G			
CMC														
		200	0	—	1.0	0	0.5	0	0	0.5	1.5	—		
		200	0	—	1.0	0	0	0	0	0	1.0	—		
Test Chemical														
24	0.6	200	0	—	1.0	0	0	0	0	0	1.0	—		
	0.8	200	0.5	—	1.0	0	1.5	0	0	1.5	2.0	—		
	1.0	200	0	—	1.5	0	1.0	0	0.5	1.5	3.0	—		
	1.2	200	1.0	—	1.5	0	1.0	0	0	1.0	2.5	—		
	1.4				No observation for metaphase									
48	0.6	200	0	—	0	0	0	0	0	0	0	—		
	0.8	200	0.5	—	0.5	0	0	0	0	0	0.5	—		
	1.0	200	0	—	0	0	0.5	0	0	0.5	0.5	—		
	1.2	200	2.5	—	0.5	0	0	0	0	0	0.5	—		
	1.4				No observation for metaphase									
Positive Control (MMC)														
24	0.00008	200	0	—	8.5	11.5	50.0	0	0	51.5	53.0	+		
48	0.00008	200	2.0	—	6.0	20.5	66.5	0	0.5	69.0	69.5	+		

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							Judge	
										Total			
					Gap	CTB	CTE	CSB	CSE	-G	+G		
CMC	-	200	0	-	0	0.5	1.0	0	0	1.5	1.5	-	
	+	200	0	-	1.5	0.5	0	0	0	0.5	2.0	-	
Test Chemical													
-	0.01	200	0	-	0.5	0	0.5	0	0	0.5	1.0	-	
	0.02	200	0	-	0	0	0.5	0	0	0.5	0.5	-	
	0.03	200	0	-	1.0	0	1.0	0	0	1.0	2.0	-	
	0.04	200	1.0	-	0.5	0	0	0	0	0	0.5	-	
	0.06	200	0.5	-	0.5	0	0	0	0	1.0	1.5	-	
	+	0.01	200	0	-	0.5	0	0	0	0	1.0	1.5	-
		0.02	200	2.0	-	4.0	7.5	25.0	0	0	25.5	26.5	+
		0.03	200	1.5	-	10.5	15.5	41.5	0	0	44.0	44.5	+
		0.04				No observation for metaphase							
		0.06				No observation for metaphase							
Positive Control (B(a)P)													
-	0.016	200	0	-	1.0	0	0	0	0	0	1.0	-	
+	0.016	200	0	-	9.0	12.0	45.0	0	0	48.0	49.5	+	