

1,3-Dichloropropene (1,3-ジクロロプロペン)

Experimental Data

Chemical Name:	1,3-Dichloropropene
Synonym	1,3-Dichloro-1-propene 3-Chloroallyl chloride
Molecular weight:	111.0
Melting point:	
Boiling point:	108°C, 105-106°C(730mmHg)
Flashig point:	27°C
Chemical Structure	
	$\text{Cl}-\text{CH}_2-\text{CH}=\text{CH}-\text{Cl}$
CAS No:	542-75-6
MITI No:	(2)-125
Source of Substance:	Wako Pure Chem. Ind. Ltd.
Lot. No:	CDF6263
Purity:	%
Vehicle:	1% CMC

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation: G 2B

	Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)						Judge	
						Gap	CTB	CTE	Total		Judge		
									CSB	CSE			-G
CMC	24		200	0	-	1.0	0	0.5	0	0	0.5	1.5	-
	48		200	0	-	1.0	0	0	0	0	0	1.0	-
Test Chemical													
	24	0.05	200	0.5	-	0	0.5	0.5	0	0	1.0	1.0	-
		0.1	200	10.5	+	1.5	1.5	4.5	0	0.5	6.0	7.5	±
		0.2	200	25.5	+	4.5	6.5	14.5	0	0	17.5	18.0	+
		0.3				No observation for metaphase							
		0.4				No observation for metaphase							
	48	0.05	200	4.0	-	0.5	0.5	0	0	0	0.5	1.0	-
		0.1	200	6.0	±	0.5	0.5	0	0	0.5	1.5	1.5	-
		0.2	200	21.0	+	1.5	0.5	4.0	0	1.0	5.0	5.5	±
		0.3				No observation for metaphase							
		0.4				No observation for metaphase							
Positive Control													
(MMC)	24	0.00008	200	0	-	8.5	11.5	50.5	0	0	51.5	53.0	+
	48	0.00008	200	2.0	-	6.0	20.5	6.5	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 (%)								
										Total		Judge	
					Gap	CTB	CTE	CSB	CSE	-G	+G		
CMC	-	200	0	-	0.5	0	0	0	0	0	0.5	-	
	+	200	0	-	0	0	0	0	0	0	0	-	
Test Chemical													
	-	0.025	200	1.0	-	0.5	0	0	0	0	0.5	-	
		0.050	200	0.5	-	0.5	0	0.5	0	0	0.5	1.0	-
		0.075	200	0.5	-	0.5	0	1.0	0	0	1.0	1.5	-
		0.1	200	1.0	-	1.0	0	0	0	0	1.0	1.0	-
		0.125	200	1.5	-	0.5	0	1.0	0	0	1.0	1.5	-
	+	0.025	200	0	-	1.0	0.5	1.0	0	0	1.0	2.0	-
		0.050	200	2.0	-	1.0	0	1.0	0	0	1.0	2.0	-
		0.075	200	17.0	+	3.0	1.5	5.0	0	0	6.5	9.0	±
		0.1	200	32.5	+	5.5	7.5	16.5	0	0.5	19.5	21.0	+
		0.125	200			No observation for metaphase							
Positive Control (B(a)P)													
	-	0.016	200	0	-	0	0	0	0	0	0	0.5	-
	+	0.016	200	0.5	-	6.5	10.0	39.0	0	0	44.0	44.5	+