

1,2-Dichloro-1-ethoxyethane (1,2-ジクロロ-1-エトキシエタン)

Experimental Data

Chemical Name: Synonym	1,2-Dichloro-1-ethoxyethane		Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Cell with Structural Chromosome Aberration (%)									
	1,2-Dichloroethyl ethyl ether						Judge	Gap	CTB	CTE	CSB	CSE	Total		Judge	
	Ethane, 1,2-dichloro-1-ethoxy-												-G	+G		
Molecular weight: 143.0			DMSO	24	200	0	-	0.5	0	0	0	0	0	0.5	-	
Melting point:				48	200	0	-	0.5	0	1.0	0	0	1.0	1.0	-	
Boiling point: 140-145°C			Test Chemical													
Flashing point: 43°C				24	0.0010	200	2.5	-	1.0	0	1.0	0	0	1.0	2.0	-
Chemical Structure					0.0015	200	3.5	-	4.0	9.5	17.0	0	0	22.0	22.0	+
					0.0020	200	7.5	±	13.5	18.5	37.0	0	0	46.0	47.0	+
					0.0025	200	6.5	±	10.5	23.5	37.0	0	0	40.5	42.0	+
					0.0030				No observation for metaphase							
CAS No: 623-46-1				48	0.0010	200	0.5	-	0	0.5	1.0	0	0	1.5	1.5	-
ML No: 2-(12)-32					0.0015	200	14.0	+	1.0	0.5	2.5	0	0	3.0	3.0	-
Source of Substance: Fluka Chemical AG					0.0020	200	18.5	+	1.0	1.5	5.0	0	0	6.5	6.5	±
Lot.No: 253448					0.0025	200	23.0	+	1.0	1.5	3.5	0	0.5	5.0	5.5	±
Purity: %					0.0030				No observation for metaphase							
Vehicle: DMSO			Positive Control													
Judgement for Chromosomal Aberration in CHL: Positive			(MMC)	24	0.00008	200	0	-	4.0	9.5	41.0	0	0	47.5	48.0	+
				48	0.00008	200	2.0	-	3.5	14.0	41.5	0	1.0	48.0	48.0	+

IARC Evaluation: not yet cited

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		
DMSO	-	200	0.5	-	0	0	0	0	0	0	0	-	
	+	200	0.5	-	0	0	0	0	0	0.5	0.5	-	
Test Chemical													
	-	0.010			No observation for metaphase								
		0.015			No observation for metaphase								
		0.020			No observation for metaphase								
		0.025			No observation for metaphase								
		0.030			No observation for metaphase								
	+	0.010	200	1.0	-	0	0	0.5	0	0	0.5	0.5	-
		0.015	200	2.5	-	0.5	0.5	2.5	0	0	3.0	3.5	-
		0.020	200	2.0	-	5.0	7.0	30.0	0	0	34.0	35.5	+
		0.025	200	0	-	35.5	50.5	57.5	0	0	84.5	84.5	+
		0.030				No observation for metaphase							
Positive Control (B(a)P)													
	-	0.016	200	0	-	0.5	0.5	1.0	0	0	1.5	2.0	-
	+	0.016	200	0	-	2.5	8.5	33.5	0	0	35.5	37.0	+