

Allylglycidyl ether (アリルグリシジルエーテル)

Experimental Data

Chemical Name:	Allylglycidyl ether
Synonym	3-Allyloxy-1,2-epoxypropane
Molecular weight:	114.14
Melting point:	°C
Boiling point:	153.9-154°C (760mmHg)
Flashing point:	57°C
Chemical Structure	
$\text{CH}_2=\text{CH}-\text{CH}_2\text{O}-\text{CH}_2-\text{CH}-\text{CH}_2$ <div style="text-align: center;"> </div>	
CAS No :	106-92-3
MITI No :	(2)-393
Source of Substance:	Wako Pure Chemical Ind., Ltd.
Lot.No. :	AWJ1500
Purity:	%
Vehicle:	DMSO

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

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		
DMSO	24	200	0	-	0	0	0	0	0	0	0	0	-
	48	200	2.0	-	0	0	0	0	0	0	0	0	-
Test Chemical													
	24	0.04	200	0.5	-	1.5	0	2.5	0	0	2.5	4.0	-
		0.06	200	1.5	-	0.5	0.5	1.5	0	0	2.0	2.5	-
		0.08	200	1.0	-	2.5	1.0	3.0	0	0	4.0	6.5	±
		0.10	168	0.6	-	9.5	8.3	16.7	0	0	22.6	26.2	+
		0.12	141	0.7	-	15.6	25.5	53.2	0	0	63.8	69.5	+
	48	0.04	200	0.0	-	1.5	0.5	1.0	0	0	1.5	3.0	-
		0.06	200	0.5	-	1.0	0.5	2.0	0	0	2.5	3.5	-
		0.08	139	0.7	-	7.2	5.8	11.5	0.7	0	16.5	20.1	+
		0.10				No observation for metaphase							
		0.12				No observation for metaphase							
Positive Control (MMC)													
(MMC)	24	0.00005	200	1.0	-	6.5	12.5	43.0	0	0	44.5	46.5	+
	48	0.00005	200	1.0	-	12.5	18.0	82.5	0	0.5	85.5	86.5	+

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
					Gap	CTB	CTE	CSB	CSE	Total		Judge	
										-G	+G		
DMSO	-	200	0	-	0	0	0	0	0	0	0	0	-
	+	200	0	-	1.0	0	0	0	0	0	0	1.0	-
Test Chemical													
	-	0.125	200	0.5	-	1.0	0	0.5	0	0	0.5	1.5	-
		0.15	200	0.5	-	1.5	0.5	0.5	0	0	1.0	2.5	-
		0.175	200	1.0	-	0	0	2.0	0	0	2.0	2.0	-
		0.2	200	1.5	-	1.5	2.0	4.0	0	0	5.0	6.0	±
		0.225	200	0	-	3.5	7.5	20.0	0	0	23.5	24.5	+
	+	0.125	200	1.5	-	0	0	0	0	0.5	0.5	0.5	-
		0.15	200	2.0	-	0.5	0.5	7.5	0	0	7.5	8.0	±
		0.175	200	3.5	-	1.5	2.0	15.5	0	0	16.5	16.5	+
		0.2	200	0.5	-	1.5	3.0	17.0	0	0	18.5	19.0	+
		0.225	200	2.5	-	11.0	15.0	37.0	0	0	43.0	44.0	+
Positive Control													
(B(a)P)	-	0.008	200	0.5	-	0	0.5	0.5	0	0	1.0	1.0	-
	+	0.008	200	0	-	4.0	4.0	22.0	0	0	23.0	24.0	+

Metaphase was not observed at the concentration of 0.25 mg/ml.