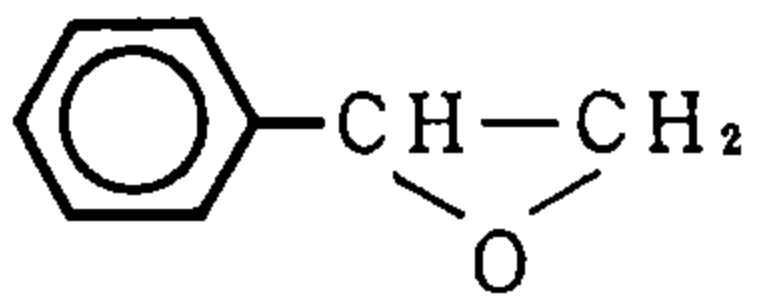


Styrene oxide (スチレン オキシド)

Chemical Name:	Styrene oxide
Synonym	Epoxyethyl benzene Phenyloxirane Oxirane, phenyl-
Molecular weight:	120.1
Melting point:	-35.6°C (±)
Boiling point:	191~192°C, 57.5~58.5°C(4mmHg)
Chemical Structure	
CAS No :	96-09-3
MITI No :	(3)-1033
Source of Substance:	Tokyo Kasei Kogyo Co., Ltd.
Lot.No. :	AX01
Purity:	99.4%
Vehicle:	DMSO

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : G 2A

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		
DMSO	24	200	0	-	0.5	0	0.5	0	0	0.5	1.0	-	
	48	200	0.5	-	0.5	0	0	0	0	0	0.5	-	
Test Chemical													
	24	0.0026	200	0.5	-	0	0	0.5	0	0	0.5	0.5	-
		0.0064	200	0	-	1.5	0	2.0	0	0	2.0	3.5	-
		0.016	200	0.5	-	1.0	4.5	10.5	0	0	13.5	14.5	+
		0.04	200	0	-	8.0	46.5	93.5	0	0	95.5	95.5	+
		0.1	200			No observation for metaphase							
	48	0.0026	200	0.5	-	0	0	0	0	0	0	0	-
		0.0064	200	0	-	0.5	1.0	0.5	0	0	1.5	2.0	-
		0.016	200	1.0	-	0	0	1.0	0	0	1.0	1.0	-
		0.04	200	7.5	±	3.5	7.5	19.5	2.5	3.5	24.5	25.5	+
		0.1	200			No observation for metaphase							
Positive Control													
(MMC)	24	200	0	-	2.5	10.0	45.5	0	0	50.0	50.0	+	
	48	200	0	-	7.0	36.0	88.0	0	0	89.5	89.5	+	

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							Judge	
					Gap	CTB	CTE	Total		-G	+G		
								CSB	CSE				
DMSO	-	200	0.5	-	0.5	0.5	1.5	0	0	2.0	2.5	-	
	+	200	1.5	-	0	0	0.5	0	0	0.5	0.5	-	
<b>Test Chemical</b>													
	-	0.05	200	1.0	-	7.0	21.0	49.5	0	0	54.0	55.0	+
		0.1				No observation for metaphase							
		0.15				No observation for metaphase							
		0.2				No observation for metaphase							
		0.25				No observation for metaphase							
	+	0.05	200	0	-	0.5	0.5	0	0	0.5	1.0	-	
		0.1	200	1.5	-	0.5	2.0	0.5	0	0	2.5	2.5	-
		0.15	200	1.0	-	2.0	4.0	15.5	0	0	17.5	19.0	+
		0.2	200	1.0	-	7.5	25.5	74.0	0	0.5	75.5	76.0	+
		0.25				No observation for metaphase							
<b>Positive Control (CP)</b>													
	-		200	0	-	1.0	0.5	0.5	0	0	1.0	2.0	-
	+		200	0	-	4.0	14.5	61.0	0	0	64.5	65.0	+