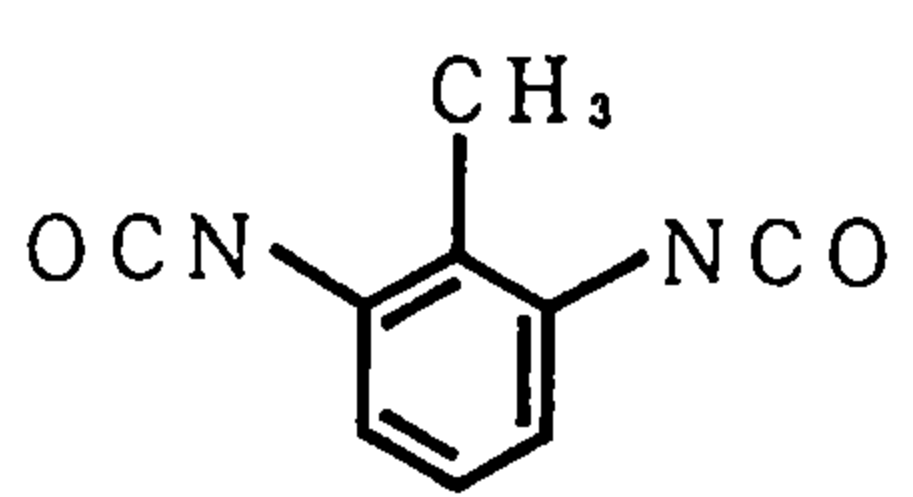


Toluene 2,6-diisocyanate (トルエン 2,6-ジイソシアナート)

Experimental Data

<u>Chemical Name:</u>	Toluene 2,6-diisocyanate
<u>Synonym</u>	2-Methyl-m-phenylenediisocyanate Benzene, 1,3-diisocyanato-2-methyl-
<u>Molecular weight:</u>	174.16
<u>Melting point:</u>	°C
<u>Boiling point:</u>	129-133°C
<u>Chemical Structure</u>	
<u>CAS No :</u>	91-08-7
<u>MITI No :</u>	(3)-2214
<u>Specified chemical substances :</u>	G2
<u>Source of Substance:</u>	Tokyo Kasei Kogyo Co., Ltd.
<u>Lot.No.:</u>	AV01
<u>Purity:</u>	%
<u>Vehicle:</u>	DMSO

	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	0.5	0	0	0	0.5	0.5	-
	48		200	1.0	-	0	0.5	0	0	0	0.5	0.5	-
Test Chemical	24	0.05	200	0.5	-	1.0	0.5	0.5	0	0	1.0	2.0	-
		0.1	200	1.0	-	0.5	0.5	1.5	0	0	2.0	2.0	-
		0.2	200	2.0	-	0	0.5	1.5	0	0	1.5	1.5	-
		0.3	200	14.0	+	3.5	7.5	10.0	0	0	14.5	15.5	+
		0.4				No observation for metaphase							
	48	0.05	200	0	-	0	0	2.0	0	0	2.0	2.0	-
		0.1	200	0	-	0	0	0.5	0	0	0.5	0.5	-
		0.2	200	3.0	-	1.0	0	0	0	0	0	1.0	-
		0.3	200	2.0	-	0.5	0.5	1.0	0	0.5	2.0	2.5	-
		0.4	200	5.4	±	0.5	0	1.0	0	0.6	1.8	2.4	-
Positive Contr (MMC)	24	0.00005	200	0.5	-	3.5	12.5	63.5	0	0	69.0	69.0	+
	48	0.00005	200	1.5	-	3.5	10.0	81.0	0	1.5	83.5	84.0	+

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : G 2B

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	0.5	-	0	0	0.5	0	0	0.5	0.5	-
	+	200	1.5	-	1.5	0	1.0	0	0	1.0	2.0	-
Test Chemical												
-	0.05	200	0.5	-	0.5	0	0.5	0	0	0.5	0.5	-
	0.1	200	2.0	-	1.0	0	0.5	0	0	0.5	1.5	-
	0.2	200	9.0	±	1.0	0	0.5	0	0	0.5	2.0	-
	0.4	128	21.1	+	5.5	6.3	11.7	0	0	14.1	15.6	+
	0.6				No observation for metaphase							
	+	0.05	200	2.0	-	1.0	0.5	0	0	0	0.5	1.5
+	0.1	200	2.0	-	0.5	0	1.5	0	0	1.5	1.5	-
	0.2	200	4.5	-	2.5	0.5	0.5	0	0.5	1.5	4.0	-
	0.4	200	18.5	+	1.5	3.0	7.5	0	0	8.5	9.0	±
	0.6				No observation for metaphase							
Positive Control												
(B(a)P)	-	200	5.5	±	1.0	0.5	0.5	0	0	1.0	2.0	-
	+	200	0.5	-	4.5	5.5	42.0	0	0	43.0	43.5	+