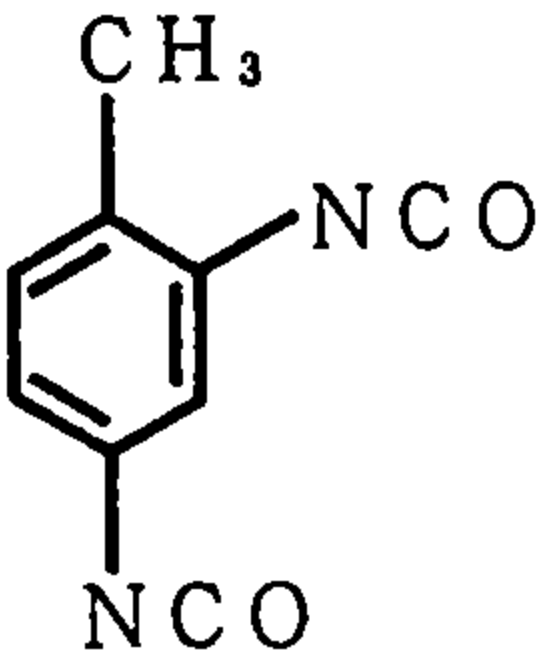


Toluene 2,4-diisocyanate (トルエン 2,4-ジイソシアナート)

Experimental Data

<b>Chemical Name:</b>	Toluene 2,4-diisocyanate
<b>Synonym</b>	4-Methyl-m-phenylenediisocyanate Benzene, 2,4-diisocyanato-1-methyl-
<b>Molecular weight:</b>	174.16
<b>Melting point:</b>	19.5-21.5°C
<b>Boiling point:</b>	250°C
<b>Chemical Structure</b>	
<b>CAS No :</b>	584-84-9
<b>MITI No :</b>	(3)-2214
<b>Specified chemical substance :</b>	G2
<b>Source of Substance:</b>	Tokyo Kasei Kogyo Co., Ltd.
<b>Lot. No. :</b>	AX01
<b>Purity:</b>	%
<b>Vehicle:</b>	DMSO

Treated Time (Hr)	Concentration (mg/ml)	No. of Meta-phase	Poly-ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
					Gap	CTB	CTE	Total		Judge			
								CSB	CSE		-G	+G	
DMSO	24	200	0	—	0	0	0.5	0	0	0.5	0.5	—	
	48	200	0.5	—	0	0	0.5	0	0	0.5	0.5	—	
Test Chemical	1												
	24	0.1	200	0.5	—	0	0	0.5	0	0	0.5	0.5	—
		0.2	200	1.0	—	0.5	0	0	0	0	0.5	—	
		0.4	200	2.5	—	0.5	1.0	1.0	0	0	1.5	2.0	—
		0.6					No observation for metaphase						
		0.8					No observation for metaphase						
	48	0.1	200	1.0	—	0	0	0	0	0	0	—	
		0.2	200	1.5	—	0	0	0	0	0	0	—	
		0.4	200	1.5	—	0	0	0	0	0	0	—	
		0.6					No observation for metaphase						
		0.8					No observation for metaphase						
Positive Control (MMC)	24	0.00005	200	0.5	—	2.0	5.0	57.5	0	0	58.0	58.0	+
	48	0.00005	200	1.5	—	6.0	8.0	81.5	0	0.5	83.0	83.0	+

Judgement for Chromosomal Aberration in CHL: Negative

IARC Evaluation : G 2B

Experimental Data

S 9 with or without	Concent- ration (ng/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	0	0.5	0	0	0.5	0.5	-
	+	200	1.5	-	1.5	0	1.0	0	0	1.0	2.0	-
<b>Test Chemical</b>												
-	0.05	200	1.0	-	0	0.5	0	0	0	0.5	0.5	-
	0.1	200	5.5	±	0	0.5	0.5	0	0	1.0	1.0	-
	0.2	200	3.0	-	0.5	0	0	0	0.5	0.5	1.0	-
	0.4	200	3.5	-	0.5	0	0.5	0	0	0.5	1.0	-
	0.6				No observation for metaphase							
	0.05	200	2.5	-	1.0	0	0.5	0	0	0.5	1.5	-
	0.1	200	3.5	-	0.5	0.5	0.5	0	0.5	1.5	2.0	-
	0.2	200	1.5	-	1.0	0	0	0.5	0	0.5	1.5	-
	0.4	200	6.0	±	2.5	0.5	0.5	0	0	1.0	3.5	-
	0.6				No observation for metaphase							
<b>Positive Control</b>												
(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	+