

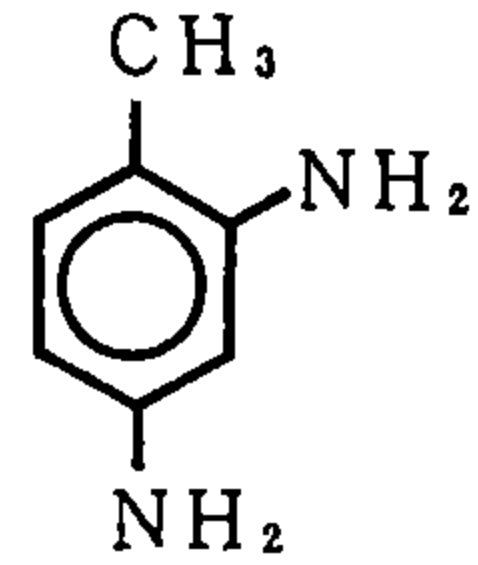
2,4-Diaminotoluene (2,4-ジアミノトルエン)

Experimental Data

Chemical Name: 2,4-Diaminotoluene
 Synonym: 2,4-Tolulenediamine
 m-Tolulenediamine
 1,3-Benzenediamine,
 4-methyl-

Molecular weight: 122.7
 Melting point: 97-99°C
 Boiling point: 280-285°C

Chemical Structure



CAS No : 95-80-7
 MITI No : (3)-126
 Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
 Lot.No. : FAY01
 Purity: 99.9%
 Vehicle: 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	0.5	-	0.5	0	1.0	0	0	1.5	1.5	-	
	48	200	0	-	0	0.5	0	0	0	0.5	0.5	-	
Test Chemical													
	24	200	0.00078	0.5	-	0	0	0	0	0	0	0	-
			0.0031	0.5	-	0.5	0.5	0	0	0	0.5	1.0	-
			0.013	1.5	-	2.0	1.0	5.0	0	0	5.5	7.0	±
			0.05	0.5	-	3.5	9.5	20.0	0.5	0	24.5	25.5	+
			0.2	No observation for metaphase									
	48	200	0.00078	0	-	0	0	1.0	0	0	1.0	1.0	-
			0.0031	0	-	1.0	3.0	0.5	0	0	3.0	3.5	-
			0.013	1.0	-	1.5	8.0	27.5	0	0	30.0	30.5	+
			0.05	0	-	4.5	20.5	58.5	0	0	65.0	66.0	+
			0.2	No observation for metaphase									
Positive Control													
(MMC)	24	200	0	-	2.5	3.0	29.0	0	0	30.5	31.0	+	
	48	200	1.5	-	1.5	6.0	23.0	1.0	0	28.0	29.0	+	

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	-	0.5	0	0.5	0	0	0.5	1.0	-	
	+	200	0.5	-	0	0	0	0	0	0	0	-	
Test Chemical													
	-	0.16	200	0.5	-	1.5	5.0	17.0	0	0	18.0	18.5	+
		0.31	200	0	-	0	3.0	13.5	0	0	14.5	14.5	+
		0.63	200	0	-	1.5	7.0	15.5	0	0	20.0	21.0	+
		1.3				No observation for metaphase							
		2.5				No observation for metaphase							
	+	0.16	200	0	-	0.5	1.0	0.5	0	0	1.5	1.5	-
		0.31	200	0.5	-	0.5	1.0	5.5	0	0	6.5	6.5	±
		0.63	200	0.5	-	1.5	3.0	12.0	0	0	13.0	13.5	+
		1.3	200	1.0	-	0.5	1.5	5.5	0	0	6.5	7.0	±
		2.5				No observation for metaphase							
Positive Control (CP)													
	-		200	0.5	-	0	0.5	0	0	0	0.5	0.5	-
	+		200	0	-	2.5	6.0	39.0	0	0.5	40.5	41.0	+