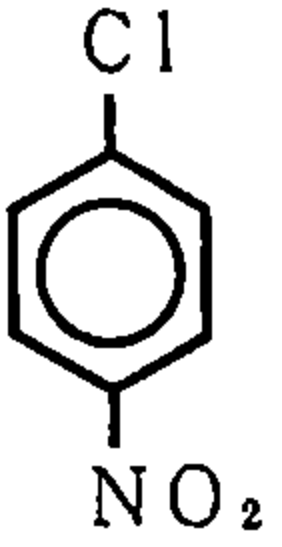


p-Chloronitrobenzene (p-クロロニトロベンゼン)

<u>Chemical Name:</u>	p-Chloronitrobenzene
<u>Synonym</u>	p-Nitrochlorobenzene Benzene, 1-chloro-4-nitro-
<u>Molecular weight:</u>	157.6
<u>Melting point:</u>	83°C-84°C
<u>Boiling point:</u>	242°C
<u>Flasing point:</u>	> 110°C
<u>Chemical Structure</u>	
<u>CAS No :</u>	100-00-5
<u>MITI No :</u>	(3)-442
<u>Specified chemical substances :</u>	G2
<u>Source of Substance:</u>	Tokyo Kasei Kogyo Co., Ltd.
<u>Lot.No. :</u>	AY01
<u>Purity:</u>	%
<u>Vehicle:</u>	DMSO

Judgement for  
Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

	Treated Time (Hr)	Concentration (mg/ml)	No. of Metaphase	Poly-ploid (%)	Cell with Structural Chromosome Aberration (%)								
					Judge	Cell with Structural Chromosome Aberration (%)					Total		Judge
						Gap	CTB	CTE	CSB	CSE	-G	+G	
DMSO	24		200	0	-	1.0	1.5	0.5	0	0	2.0	2.5	-
	48		200	1.0	-	0.5	0	0	0	0	0	0.5	-
Test Chemical	24	0.05	200	8.5	±	0	0	1.0	0	0	1.0	1.0	-
		0.1	200	15.5	+	0.5	1.5	1.5	0	0	3.0	3.0	-
		0.2	200	7.5	±	0.5	1.0	0.5	0	0	1.0	1.5	-
		0.4	200	0.5	-	1.0	1.0	0.5	0	0	1.5	2.5	-
		0.6				No observation for metaphase							
	48	0.05	200	3.5	-	0	0	0.5	0	0	0.5	0.5	-
		0.1	200	10.0	+	0.5	0	0.5	0	0	0.5	1.0	-
		0.2	200	12.0	+	0	0	0	0	1.0	1.0	1.0	-
		0.4	200	17.5	+	0.5	0	0.5	0	0	0.5	1.0	-
		0.6	200	8.5	±	0.5	1.5	2.5	0	0	3.5	4.0	-
Positive Control (MMC)	24	0.00008	200	0.5	-	11.5	15.0	47.0	0	0	52.5	54.5	+
	48	0.00008	200	1.0	-	8.5	28.5	83.5	0	0	86.5	87.0	+

Test chemical was precipitated at the concentration of 0.4, 0.6mg/ml.  
Metaphase was not observed at the concentration of 0.8mg/ml.

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Metaphase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)								
					Gap	CTB	CTE	CSB	CSE	Total		Judge	
										-G	+G		
DMSO	-	200	3.5	-	1.0	0.5	0.5	0	0	1.0	2.0	-	
	+	200	1.5	-	0	0.5	0	0	0	0.5	0.5	-	
Test Chemical													
-	0.2	200	10.5	+	0.5	0.5	1.0	0	0	1.5	2.0	-	
	0.3	200	7.0	±	0.5	1.0	0.5	0	0	1.5	2.0	-	
	0.4	200	6.0	±	0	0	0	0	0	0	0	-	
	0.5	200	8.0	±	0	0.5	1.0	0	0	1.5	1.5	-	
	0.6	200	4.5	-	0.5	0.5	0.5	0	0	1.0	1.5	-	
	+	0.2	200	7.5	±	0.5	0.5	0.5	0	0	1.0	1.5	-
		0.3	200	4.5	-	1.5	0	1.0	0	0	1.0	2.5	-
		0.4	200	4.0	-	0	0	2.0	0	0	2.0	2.0	-
		0.5	200	1.5	-	1.0	2.0	7.0	0	0	9.0	9.5	±
		0.6	200	3.0	-	3.5	7.0	13.5	0	0	17.0	18.5	+
Positive Control													
(B(a)P)	-	0.008	200	4.0	-	1.0	0	1.0	0	0	1.0	2.0	-
	+	0.008	200	0	-	6.0	7.5	53.0	0	0	55.5	57.0	+

Test chemical was precipitated at the concentration of 0.4, 0.5, 0.6mg/ml.  
Metaphase was not observed at the concentration of 0.7mg/ml.