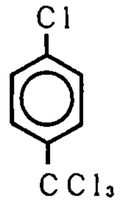
p-Chlorobenzotrichloride (p-クロロベンゾトリクロリド)

Chemical Name: p-Chlorobenzotrichloride
Synonym 1-Chloro-4-(trichloromethyl)-benzene
Benzene, 1-chloro-4-(trichloromethyl)-
Molecular weight: 229.92
Melting point: 0.6 ℃
Boiling point: 24.5 ℃
Flashing point: >110 ℃
Chemical Structure



CAS No : 5216-25-1
NITI No : (3)-89, (3)-93
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No.: FBN01
Purity: %
Vehicle: 1%CMC

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

	Treated Time (Hr)	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
CMC	24		200	0.5	−	0.5	0	0	0	0	0	0.5	−
	48		200	0	−	0.5	0	0	0	0	0	0.5	−
Test Chemical													
	24	0.025	200	0	−	1.0	1.5	0.5	0	0	2.0	3.0	−
		0.05	200	0	−	0.5	1.5	3.5	0	0	4.5	5.0	±
		0.1	200	0.5	−	0.5	3.5	7.0	0	0	10.5	10.5	+
		0.2	200	2.0	−	2.0	5.0	13.5	0	0	16.0	17.0	+
		0.4	200	1.0	−	4.0	11.5	29.0	0	0	35.0	36.0	+
	48	0.025	200	0.5	−	0.5	0	0.5	0	0	0.5	1.0	−
		0.05	200	0	−	0.5	0	1.5	0	0	1.5	2.0	−
		0.1	200	1.0	−	0	1.0	2.5	0	0	3.0	3.0	−
		0.2	200	0.5	−	2.5	2.0	4.5	0	1.0	7.0	8.5	±
		0.4	200	0	−	4.5	3.5	12.0	0	0	13.5	14.5	+
Positive Control													
(MMC)	24	0.00008	200	0	−	7.0	13.0	41.5	0	0	46.0	48.0	+
	48	0.00008	200	2.0	−	11.5	12.5	46.0	0	0	53.0	53.5	+

Experimental Data

	S 9 with or without	Concentration (mg/ml)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
CMC	−		200	2.0	−	0	0	1.0	0	0	1.0	1.0	−
	+		200	0.5	−	0	1.5	1.0	0	0	2.5	2.5	−
Test Chemical													
	−	0.026	200	0.5	−	0.5	0	1.5	0	0	1.5	2.0	−
		0.064	200	0	−	0.5	1.5	3.5	0	0	4.5	4.5	−
		0.16	200	0.5	−	1.0	3.5	7.5	0	0	9.5	10.5	+
		0.4	200	0.5	−	5.5	6.5	46.5	0	0	48.5	50.0	+
		1.0				No observation for metaphase							
	+	0.026	200	1.0	−	0	1.5	1.0	0	0	2.5	2.5	−
		0.064	200	0	−	1.5	0.5	8.0	0	0	8.0	9.0	±
		0.16	200	0	−	3.0	3.0	18.0	0	0	21.0	22.5	+
		0.4	200	0	−	8.5	18.5	61.5	0	0.5	66.5	67.5	+
		1.0				No observation for metaphase							
Positive Control													
(B(a)P)	−		200	0	−	1.0	0	0.5	0	0	0.5	1.5	−
	+		200	1.0	−	3.0	5.5	25.0	0	0	27.5	29.0	+