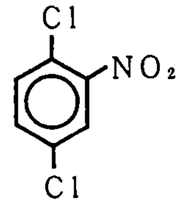
1,4-Dichloro-2-nitrobenzene (1,4-ジクロロ-2-ニトロベンゼン)

Experimental Data

Chemical Name: 1,4-Dichloro-2-nitrobenzene
Synonym: p-Dichloronitrobenzene
2,5-Dichloronitrobenzene
Benzene, 1,4-dichloro-2-nitro-
Molecular weight: 192.0
Melting point: 54-57℃
Boiling point: 266-269℃
Flashing point: > 110℃

Chemical Structure



CAS No : 89-61-2
MITI No : (3)-261
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot.No.: LAR4761
Purity: %
Vehicle: 1%CMC

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

	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	0	0	0	0	0	0	−
	48		200	0	−	0.5	0	0.5	0	0	0.5	1.0	−
Test Chemical													
	24	0.2	200	0.5	−	1.0	0.5	0	0	0	0.5	1.5	−
		0.3	200	0.5	−	0.5	0	0	0	0	0	0.5	−
		0.4	200	0.5	−	1.0	0	0.5	0	0	0.5	1.5	−
		0.5	200	0.5	−	2.0	0	0	0	0	0	2.0	−
		0.6	200	0	−	1.0	0.5	0	0	0	0.5	1.5	−
	48	0.2	200	0	−	0	0	0	0	0	0	0	−
		0.3	200	0.5	−	0.5	0	0	0	0	0	0.5	−
		0.4	200	1.5	−	0.5	0	0	0	0	0	0.5	−
		0.5	200	0.5	−	0	0	0	0	0	0	0	−
		0.6	200	5.5	±	1.0	0	1.0	0	0	1.0	2.0	−
Positive Control													
(MMC)	24	0.00008	200	0	−	3.5	7.5	25.0	0.5	0	29.0	31.5	+
	48	0.00008	200	0	−	2.0	7.5	35.0	0	0.5	39.0	39.5	+

Metaphase was not observed at the concentration of 0.7mg/ml.

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	0.5	−	0	0	0	0	0	0	0	−
+		200	0	−	1.0	0	0	0	0	0	1.0	−
Test Chemical												
−	0.038	200	0	−	0	0.5	0.5	0	0	0.5	0.5	−
	0.075	200	0	−	0	0	2.0	0	0	2.0	2.0	−
	0.15	200	0	−	0	0	0	0	0	0	0	−
	0.3	200	0.5	−	0.5	0	0	0	0	0	0.5	−
	0.45	200	0	−	1.0	1.5	0.5	0.5	0	2.5	3.5	−
+	0.038	200	1.0	−	0.5	0	0.5	0	0	0.5	1.0	−
	0.075	200	0	−	1.0	0	1.5	0	0	1.5	2.5	−
	0.15	200	6.0	±	1.5	1.0	5.5	0	0	6.0	7.0	±
	0.3	200	4.5	−	3.5	6.0	10.0	0	1.0	15.0	17.0	+
	0.45				No observation for metaphase							
Positive Control												
(B(a)P)−		200	0.5	−	0	0	0.5	0	0	0.5	0.5	−
+		200	0	−	4.5	0	22.5	0	0	24.5	26.0	+