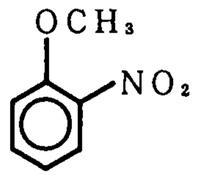
o-Nitroanisole (o-ニトロアニソール)

Chemical Name: o-Nitroanisole
Synonym 1-Methoxy-2-nitrobenzene
Benzene, 1-methoxy-2-nitro-
Molecular weight: 153.14
Melting point: 9.6℃
Boiling point: 271℃

Chemical Structure



CAS No : 91-23-6
MITI No : (3)-787
Source of Substance: Wako Pure Chemical Ind., Ltd.
Lot.No.: KPQ2905
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	1.5	−	1.0	0.5	0.5	0	0	1.0	2.0	−
	48		200	0	−	0	0	1.0	0	0	1.0	1.0	−
Test Chemical													
	24	0.1	200	0.5	−	0	0	0.5	0	0	0.5	0.5	−
		0.2	200	2.0	−	0	0	0.5	0	0.5	1.0	1.0	−
		0.4	200	0	−	0.5	0	0.5	0	0	0.5	1.0	−
		0.6	200	0	−	1.0	0	0.5	0	0	0.5	1.5	−
		0.8				No observation for metaphase							
	48	0.1	200	0.5	−	0	0	0	0	0	0	0	−
		0.2	200	0.5	−	0	0	0	0	0	0	0	−
		0.4	200	6.0	±	0	0	0.5	0	0	0.5	0.5	−
		0.6	200	3.5	−	1.0	0	0.5	0	0.5	1.0	2.0	−
		0.8				No observation for metaphase							
Positive Control													
(MMC)	24	0.00005	200	1.0	−	6.5	12.5	43.0	0	0	44.5	46.5	+
	48	0.00005	200	1.0	−	12.5	18.0	82.5	0	0.5	85.5	86.5	+

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	0	−	0	0	0.5	0	0	0.5	0.5	−
	+		200	2.5	−	1.0	0	0.5	0.5	0	1.0	1.5	−
Test Chemical													
	−	0.2	200	0	−	0.5	0	0	0	0	0	0.5	−
		0.4	200	1.0	−	0	0.5	0.5	0	0	0.5	0.5	−
		0.6	200	0.5	−	0	0.5	1.0	0	0	1.5	1.5	−
		0.8				No observation for metaphase							
		1.0				No observation for metaphase							
	+	0.2	200	2.0	−	1.5	0.5	1.0	0	0	1.0	2.5	−
		0.4	200	4.0	−	0	0	0	0	0	0	0	−
		0.6	200	2.5	−	1.0	0	1.5	0	0	1.5	2.5	−
		0.8	200	2.5	−	1.5	1.5	11.5	0	0	11.5	13.0	+
		1.0				No observation for metaphase							
Positive Control													
(B(a)P)	−		200	1.5	−	0	0	0	0	0	0	0	−
	+		200	0	−	2.0	9.0	34.0	0	0	36.5	36.5	+