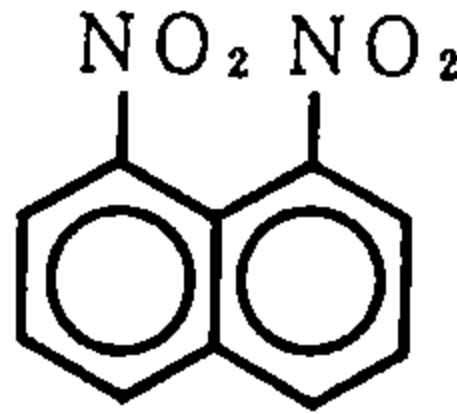


1,8-Dinitronaphthalene (1,8-ジニトロナフタレン)

Experimental Data

Chemical Name:	1,8-Dinitronaphthalene
Synonym	peri-Dinitronaphthalene
Molecular weight:	218.2
Melting point:	173-173.5 °C
Boiling point:	°C
Chemical Structure	
CAS No :	602-38-0
MITI No :	(4)-325
Source of Substance:	Tokyo Kasei Kogyo Co., Ltd.
Lot. No. :	AG01
Purity:	%
Vehicle:	DMSO

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

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	1.0	—	0	0	0	0	0.5	0.5	0.5	—	
	48	200	0	—	2.0	0.5	0	0	0	0.5	2.5	—	
Test Chemical													
24	0.0063	200	1.0	—	0.5	0	0	0	0	0	0.5	—	
	0.013	200	0.5	—	0.5	0.5	0.5	0	0	1.0	1.5	—	
	0.025	200	0	—	0	0.5	0.5	0	0	1.0	1.0	—	
	0.05	200	0	—	1.0	0.5	0.5	0	0	1.0	2.0	—	
	0.1	200	0.5	—	0	1.5	0.5	0	0	2.0	2.0	—	
48	0.0063	200	0	—	1.0	0	0	0	0	0	1.0	—	
	0.013	200	0.5	—	1.0	0	0.5	0	0	0.5	1.5	—	
	0.025	200	0	—	0	0	0	0	0.5	0.5	0.5	—	
	0.05	200	0.5	—	0.5	0	1.0	0	0	1.0	1.5	—	
	0.1	200	0.5	—	0.5	0.5	1.0	0	0	1.5	2.0	—	
Positive Control													
(MMC)	24	0.00008	200	1.5	—	3.0	6.0	28.5	0	0	31.5	33.5	+
	48	0.00008	200	0	—	2.0	6.5	25.5	0	0.5	30.5	31.5	+

Experimental Data

S 9 with or without	Concent- ration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							Judge	
					Gap	CTB	CTE	CSB	CSE	Total			
										-G	+G		
DMSO	-	200	0	-	0	0	0	0	0	0	0	-	
	+	200	0	-	0.5	0	0	0	0	0	0.5	-	
Test Chemical													
	-	0.01	200	0	-	0	0	0	0	0	0.5	-	
		0.015	200	0.5	-	0	0	0	0	0	0	-	
		0.02	200	0	-	0	0	0	0	0	0	-	
		0.025	200	0	-	0.5	0	0.5	0	0	0.5	1.0	-
		0.03	200	0	-	0	0	0	0	0	0	-	
	+	0.01	200	0	-	0.5	0.5	0	0	0	0.5	1.0	-
		0.015	200	1.5	-	0.5	2.0	9.5	0	0	10.5	10.5	+
		0.02	200	2.0	-	2.5	2.5	14.5	0	0	16.0	16.5	+
		0.025	200	2.0	-	3.0	3.5	10.0	0	0	12.0	14.0	+
		0.03	200	1.0	-	3.5	5.0	17.0	0	0	18.5	20.0	+
Positive Control													
(B(a)P)	-	200	0	-	0.5	0	0.5	0	0	0.5	1.0	-	
	+	200	0	-	4.0	5.0	32.5	0.5	1.0	35.0	36.5	+	