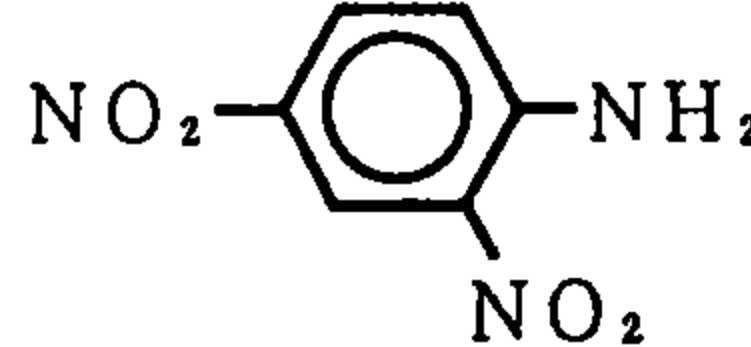


2,4-Dinitroaniline (2,4-ジニトロアニリン)

Chemical Name:	2,4-Dinitroaniline
Synonym	2,4-Dinitrobenzenamine
	Benzenamine, 2,4-dinitro-
Molecular weight:	183.1
Melting point:	177-183°C
Boiling point:	°C
Chemical Structure	
CAS No:	97-02-9
MITI No:	(3)-403
ML No:	4-(12)-212
Source of Substance:	Wako Pure Chem. Ind. Ltd.
Lot. No:	LAN0415
Purity:	%
Vehicle:	DMSO

Judgement for
Chromosomal Aberration in CHL: Positive

Experimental Data

Treated Time (Hr)	Concen- ration (mg/ml)	No. of Meta- phase (%)	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)						Total	Judge	
					Gap	CTB	CTE	CSB	CSE	-G	+G		
DMSO	24	200	0	—	0	0.5	0	0	0	0.5	0.5	—	
	48	200	0	—	0	0.5	0.5	0	0	1.0	1.0	—	
Test Chemical													
	24	0.0375	200	0	—	1.5	0.5	0	0	0.5	2.0	—	
		0.075	200	1.0	—	0.5	0.5	1.0	0	0	1.5	2.0	—
		0.15	200	0	—	3.0	1.0	0.5	0	0	1.5	3.5	—
		0.3	98	0	—	1.0	1.0	1.0	0	0	2.0	3.1	—
		0.6				No observation for metaphase							
	48	0.0375	200	1.0	—	0	0	0.5	0	0	0.5	0.5	—
		0.075	200	0.5	—	0.5	0.5	0	0	0	0.5	1.0	—
		0.15				No observation for metaphase							
		0.3				No observation for metaphase							
		0.6				No observation for metaphase							
Positive Control													
(MMC)	24	0.00008	200	0	—	8.5	11.5	41.5	0.5	0	47.5	50.5	+
	48	0.00008	200	1.5	—	10.5	19.0	55.0	0	0	60.0	61.5	+

IARC Evaluation : not yet cited

Experimental Data

5% S 9 with or without	Concen- tration (mg/ml)	No. of Meta- phase (%)	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)						Total		
					Gap	CTB	CTE	CSB	CSE	-G	+G	Judge	
DMSO	—	200	0.5	—	0	0.5	0.5	0	0	1.0	1.0	—	
	+	200	1.0	—	0	0	0	0	0	0	0	—	
Test Chemical													
—	0.2	200	2.5	—	0	0	0.5	0	0	0.5	0.5	—	
	0.4	200	0	—	1.0	0.5	1.5	0	0	2.0	3.0	—	
	0.8	200	0	—	1.5	1.0	0.5	0	0	1.5	3.0	—	
	1.2	200	0	—	2.0	1.0	0.5	0	0	1.5	3.5	—	
	1.6	200	0	—	1.5	0.5	1.5	0	0	2.0	3.5	—	
	0.2	200	0.5	—	0	1.0	3.5	0	0	4.5	4.5	—	
	0.4	200	0	—	1.5	2.0	5.5	0	0	7.5	8.0	±	
	0.8	200	1.0	—	1.5	1.0	2.0	0	0	3.0	4.5	—	
	1.2	200	0	—	1.0	1.5	2.0	0	0	3.5	4.5	—	
	1.6	200	0.5	—	2.0	1.0	2.0	0	0	3.0	5.0	±	
Positive Control (B(a)P)													
—	0.016	200	0	—	0	0	0.5	0	0	0.5	0.5	—	
	+	0.016	200	0	—	6.5	10.5	34.5	0	0	39.5	40.0	+

Experimental Data

10% S 9 with or without	Concen- ration (mg/ml)	No. of Meta- phase	Poly- ploid (%)	Judge	Cell with Structural Chromosome Aberration (%)						Total -G	Total +G	Judge		
					Gap	CTB	CTE	CSB	CSE						
DMSO	—	200	0.5	—	0	0	0	0	0	0	0	0	—		
	+	200	0	—	0.5	0	0	0	0	0	0	0.5	—		
Test Chemical															
—	0.0625	200	1.5	—	0	0	0	0	0	0	0	0	—		
	0.125	200	0.5	—	0	0	0.5	0	0	0.5	0.5	0.5	—		
	0.25	200	3.0	—	0	0.5	0	0	0	0.5	0.5	0.5	—		
	0.5	200	2.0	—	0.5	0	1.5	0	0	1.5	2.0	2.0	—		
	1.0	200	2.0	—	0.5	0	0.5	0	0	0.5	1.0	1.0	—		
+	0.0625	200	0.5	—	0.5	0	0	0	0	0	0.5	0.5	—		
	0.125	200	2.5	—	1.5	0	0.5	0	0	0.5	2.0	—	—		
	0.25	200	0	—	1.5	2.0	9.5	0	0	11.5	11.0	+	+		
	0.5	200	0.5	—	2.0	3.0	15.0	0	0	16.5	17.5	+	+		
	1.0	200	0	—	1.5	0	6.5	0	0	6.5	8.0	±	±		
Positive Control															
(B(a)P)				—	0.016	200	0.5	—	0.5	0	1.0	0	1.0	1.5	—
					0.016	200	0.5	—	4.5	6.0	25.5	0	28.0	29.5	+