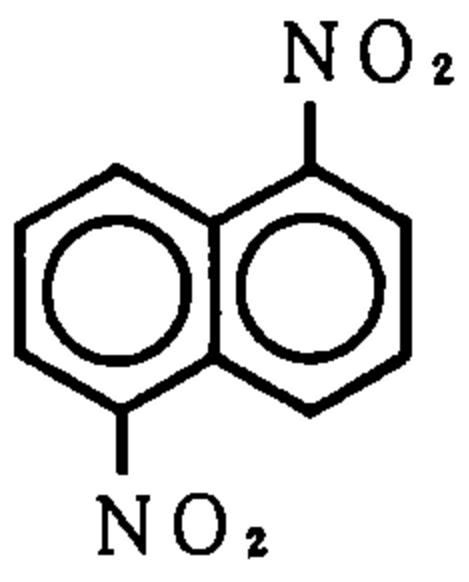


1,5-Dinitronaphthalene (1,5-ジニトロナフタレン)

Chemical Name: 1,5-Dinitronaphthalene
Synonym
Molecular weight: 218.0
Melting point: 216-217.5°C
Boiling point: °C
Chemical Structure

CAS No : 605-71-0
MITI No : (4)-325
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot. No.: DW01
Purity: %
Vehicle: DMSO

Judgement for Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

Treated Time (Hr)	Concentration (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	0.5	-	0.5	0.5	0	0	0	0.5	1.0	-	
	48	200	1.0	-	1.0	0	0	0	0	0	1.0	-	
Test Chemical													
	24	0.0078	200	0.5	-	0.5	0	0.5	0	0	0.5	1.0	-
		0.016	200	6.0	±	0.5	0	0	0	0	0	0.5	-
		0.031	200	10.0	+	0.5	0.5	0.5	0	0	1.0	1.5	-
		0.063	200	7.0	±	1.5	1.5	1.0	0	0	2.5	4.0	-
		0.13	200	10.0	+	0.5	0	1.5	0	0	1.5	2.0	-
	48	0.0078	200	2.5	-	0	0	0.5	0	0	0.5	0.5	-
		0.016	200	17.0	+	0	0	0.5	0	0	0.5	0.5	-
		0.031	200	26.5	+	0.5	0.5	1.0	0	0	1.5	1.5	-
		0.063	200	26.5	+	0.5	0	1.0	0	0	1.5	1.5	-
		0.13	200	22.5	+	1.0	0.5	2.5	0	0	2.5	3.5	-
Positive Control (MMC)													
	24	0.00008	200	0.5	-	2.5	9.0	36.0	0	0	43.5	44.5	+
	48	0.00008	200	0.5	-	3.0	7.5	27.5	0	1.0	32.0	33.5	+

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	Total		-G	+G		
								CSB	CSE				
DMSO	-	200	0.5	-	1.5	0.5	0	0	0	0.5	2.0	-	
	+	200	0.5	-	0.5	0	0	0	0	0	0.5	-	
Test Chemical													
	-	0.0078	200	0.5	-	0	0.5	0.5	0	0	1.0	1.0	-
		0.016	200	1.0	-	0.5	1.5	0.5	0	0	2.0	2.5	-
		0.031	200	4.0	-	1.0	0	1.0	0	0	1.0	2.0	-
		0.063	200	6.0	±	1.0	0.5	1.0	0	0.5	2.0	3.0	-
		0.13	200	5.0	±	1.0	0	0	0	0.5	0.5	1.5	-
		0.0078	200	0	-	0.5	0	1.0	0	0	1.0	1.5	-
		0.016	200	3.5	-	2.5	3.5	13.0	0	0	15.5	16.5	+
		0.031	200	2.0	-	1.0	6.5	14.0	0	0	17.5	18.0	+
		0.063	200	0.5	-	1.5	1.0	5.5	0	0	6.5	7.5	±
		0.13	200	0.5	-	0	1.5	3.0	0	0	4.0	4.5	±
Positive Control													
(B(a)P)	-		200	0.5	-	2.0	1.5	0	0	0	1.5	3.5	-
	+		200	0	-	4.5	7.5	37.0	0	0	39.5	40.5	+