

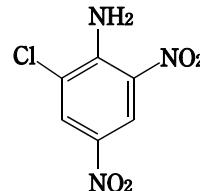
2,4-Dinitro-6-chloroaniline
 [2,4-ジニトロ-6-クロアニリン]

(C9503-1/2)

Chemical Name; 2,4-Dinitro-6-chloroaniline
 Synonym ; 2-Chloro-4,6-dinitroaniline
6-Chloro-2,4-dinitroaniline
2-Chloro-4,6-dinitrobenzenamine
2-クロ-4,6-ジニトロアニリン
6-クロ-2,4-ジニトロアニリン
2-クロ-4,6-ジニトロベンゼナミン

Molecular Weight ; 217.57
 Melting Point ; 157 °C [CHCD]
 157 - 159 °C [Aldrich]
 Boiling Point ; — °C
 Flashing Point ; — °C
 Molecular Formula; C₆H₄ClN₃O₄

Chemical Structure



CAS No. ; 3531-19-9
 MITI No. ; (3)-422
 ML No. ; —
 Specified Chemical Substances; —

Source of Substance; Tokyo Kasei Kogyo Co.,Ltd.
 Lot No. ; FBI01
 Purity ; — %

Vehicle ; DMSO

Experimental Data without Metabolic Activation

Substance	Time (h)	Concen- tration (mg/ml)	No. of Metaphase	Polyplloid (%)	Judge- ment	Cell with Structural Chromosome Aberration (%)						Jude- ment
						Gap	Chromatid CTB	Chromatid CTE	Chromosome CSB	Chromosome CSE	Total —G	
DMSO	24		200	1.0	—	0.0	1.0	0.0	0.0	0.0	1.0	1.0
	48		200	0.0	—	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Test	24	0.013	200	3.5	—	0.0	0.5	0.5	0.0	0.0	1.0	1.0
Chemical		0.025	200	2.5	—	0.0	0.0	0.5	0.0	0.0	0.5	0.5
		0.05	200	0.5	—	0.0	0.5	0.5	0.0	0.0	1.0	1.0
		0.075	146	1.4	—	0.0	2.1	2.1	0.0	0.0	4.1	4.1
		0.10				No observation for metaphase						—
	48	0.013	200	1.5	—	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.025	200	8.0	±	0.0	0.5	1.5	0.0	0.0	1.5	1.5
		0.05	154	7.1	±	0.0	1.9	0.6	0.0	0.0	2.6	2.6
		0.075				No observation for metaphase						—
		0.10				No observation for metaphase						—
Positive	24	0.00004	200	1.0	—	1.0	7.5	17.5	0.0	0.0	22.5	23.0
Control	48	0.00004	200	1.5	—	1.0	11.5	30.0	0.0	0.0	36.5	37.0
		[MMC]										

Judgement for
 Chromosomal Aberration in CHL ; **Positive**

IARC Evaluation ; not yet cited

Experimental Data with Metabolic Activation

Substance	Treatment		No. of Metaphase	Polyploid (%)	Judge- ment	Cell with Structural Chromosome Aberration (%)							Judge- ment	
	S9 mix	Concen- tration (mg/ml)				Gap	Chromatid CTB	CTE	Chromosome CSB	CSE	Total -G	+G		
DMSO	—		200	1.0	—	1.0	0.5	0.0	0.0	0.0	0.5	1.5	—	
	+		200	2.5	—	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	
Test Chemical	—	0.05	200	3.5	—	0.0	0.5	1.0	0.0	0.0	1.5	1.5	—	
	0.1		200	5.5	±	0.0	0.5	1.5	0.0	0.0	2.0	2.0	—	
	0.2		200	1.5	—	0.5	6.5	2.5	0.0	0.0	3.5	4.0	—	
	0.3 *		171	2.9	—	0.0	0.6	1.2	0.0	0.0	1.8	1.8	—	
	0.4 *					No observation for metaphase								
	+	0.05	200	2.5	—	0.5	0.5	0.0	0.0	0.0	0.5	1.0	—	
Positive Control [B(a)P]	0.1		200	3.0	—	0.5	0.5	0.5	0.0	0.0	1.0	1.5	—	
	0.2		200	7.5	±	0.0	1.0	5.5	0.0	0.0	6.0	6.0	±	
	0.3 *		167	3.0	—	1.2	7.8	25.7	0.0	0.0	29.9	29.9	+	
	0.4 *					No observation for metaphase								
	—	0.01	200	2.5	—	0.0	1.0	1.5	0.0	0.0	2.0	2.0	—	
	+	0.01	200	1.5	—	1.0	4.0	16.0	0.0	0.0	19.0	20.0	+	

* Test chemical was precipitated.