

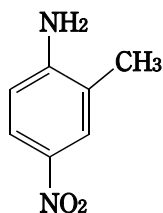
[2-メチル-4-ニトロアニリン]

## Experimental Data without Metabolic Activation

Chemical Name; 2-Methyl-4-nitroaniline  
 Synonym ; 4-Nitro-*o*-toluidine  
 C. I. 37100  
2-Methyl-4-nitrobenzenamine  
4-ニトロ-*o*-トルイジン  
アゾイック DC 34  
2-メチル-4-ニトロベンゼンセナミン

Molecular Weight ; 152.15  
 Melting Point ; 129 °C [CHCD]  
 131 - 133 °C [Aldrich]  
 Boiling Point ; - °C  
 Flashing Point ; - °C  
 Molecular Formula; C<sub>7</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>

## Chemical Structure



CAS No. ; 99-52-5  
 MITI No. ; (3)-4015 , (5)-2319  
 ML No. ; -  
 Specified Chemical Substances; -

Source of Substance; Wako Junyaku Kogyo Co., Ltd.  
 Lot No. ; TWE4552  
 Purity ; 98.2 %

Vehicle ; DMSO

Substance	Treatment		No. of Metaphase	Polyploid (%)	Judge-ment	Cell with Structural Chromosome Aberration (%)							
	Time (h)	Concentration (mg/ml)				Chromatid					Total		Judge-ment
						Gap	CTB	CTE	CSB	CSE	-G	+G	
DMSO	24		200	0.5	-	0.0	0.0	0.5	0.0	0.0	0.5	0.5	-
	48		200	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
Test Chemical	24	0.05	200	2.5	-	0.0	0.0	0.5	0.0	0.0	0.5	0.5	-
		0.1	200	10.5	+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
		0.2	200	0.5	-	0.0	0.0	1.5	0.0	0.0	1.5	1.5	-
		0.4					No observation for metaphase						
	48	0.05	200	2.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
		0.1	200	14.0	+	0.0	0.5	0.5	0.0	0.0	1.0	1.0	-
		0.2	177	35.6	+	0.6	0.0	0.6	0.0	0.0	0.6	1.1	-
		0.4					No observation for metaphase						
Positive Control [MMC]	24	0.00004	200	0.0	-	1.5	9.0	33.5	0.0	0.0	38.0	38.0	+
	48	0.00004	200	0.0	-	2.0	8.0	61.0	0.0	0.5	63.0	63.0	+

Judgement for

Chromosomal Aberration in CHL ; **Positive**

IARC Evaluation ; not yet cited

Experimental Data with Metabolic Activation

Treatment			No. of Metaphase	Polyploid (%)	Judge- ment	Cell with Structural Chromosome Aberration (%)							Judge- ment	
Substance	S9 mix	Concent- ration (mg/ml)				Chromatid		Chromosome		Total				
						Gap	CTB	CTE	CSB	CSE	-G	+G		
DMSO	-		200	0.0	-	0.0	0.5	0.5	0.0	0.0	1.0	1.0	-	
	+		200	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	
Test Chemical	-	0.25	200	9.5	±	0.0	0.5	0.0	0.0	0.5	1.0	1.0	-	
		0.5 *	200	2.0	-	0.5	1.5	3.0	0.0	0.0	4.5	5.0	±	
		1.0 *	200	0.5	-	1.0	2.0	4.5	0.0	0.0	6.0	7.0	±	
		2.0 *	200	0.0	-	0.0	2.0	1.0	0.0	0.0	2.5	2.5	-	
		3.0 *	200	0.0	-	0.0	1.0	1.5	0.0	0.0	2.5	2.5	-	
	+	0.25	200	2.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
		0.5 *	200	2.5	-	0.0	1.0	4.0	0.0	0.0	4.0	4.0	-	
		1.0 *	200	1.5	-	0.0	0.0	2.5	0.0	0.0	2.5	2.5	-	
		2.0 *	200	0.0	-	0.0	0.5	3.5	0.0	0.0	4.0	4.0	-	
		3.0 *	200	1.0	-	0.0	1.0	0.5	0.0	0.0	1.5	1.5	-	
Positive Control [B(a)P]	-	0.01	200	1.0	-	0.5	0.5	0.0	0.0	0.0	0.5	1.0	-	
	+	0.01	200	0.5	-	1.5	7.0	43.5	0.0	0.0	45.0	46.0	+	

\* Test chemical was precipitated.

※ There was no observation of cytotoxicity and chromosomal abnormality with treatment by 5.0 mg/ml.