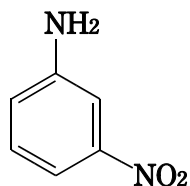


[m-ニトロアニリン]

Chemical Name; m-Nitroaniline
 Synonym ; 3-Nitroaniline
3-Nitrobenzenamine
C. I. Azoic Diazo Component 7
C. I. 37030
3-ニトロアニリン
3-ニトロベンゼンアミン
アゾニック DC 7

Molecular Weight ; 138.13
 Melting Point ; 114 °C [CHCD, Merck]
 112 - 114 °C [Aldrich]
 Boiling Point ; 306 °C [Merck]
 Flashing Point ; - °C
 Molecular Formula; C₆H₆N₂O₂

Chemical Structure



CAS No. ; 99-09-2
 MITI No. ; (3)-392 , (5)-4676
 ML No. ; -
 Specified Chemical Substances; -

Source of Substance; Tokyo Kasei Kogyo Co., Ltd.
 Lot No. ; FHA01
 Purity ; 99.9 %
 Vehicle ; DMSO

Experimental Data without Metabolic Activation

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	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 Chemical	24	0.1	200	3.0	-	0.0	0.5	1.0	0.0	0.0	1.5	1.5	-	
		0.2	200	2.0	-	0.0	0.0	1.5	0.0	0.0	1.5	1.5	-	
		0.4	200	1.0	-	0.5	0.0	2.5	0.0	0.0	2.5	3.0	-	
		0.6 *	200	0.5	-	0.5	1.5	3.0	0.0	0.0	4.5	5.0	±	
		0.8 *	200	1.0	-	1.0	1.5	3.5	0.0	0.0	4.5	5.5	±	
	48	0.1	200	6.0	±	0.0	0.0	1.5	0.0	0.0	1.5	1.5	-	
		0.2	200	11.0	+	1.0	0.0	1.0	0.0	0.5	1.5	2.0	-	
		0.4	200	12.5	+	1.0	2.0	2.0	0.0	0.5	5.0	5.5	±	
		0.6 *				No observation for metaphase								
		0.8 *				No observation for metaphase								
Positive Control	24	0.00004	200	1.0	-	1.0	7.5	17.5	0.0	0.0	22.5	23.0	+	
[MMC]	48	0.00004	200	1.5	-	1.0	11.5	30.0	0.0	0.5	36.5	37.0	+	

* Test chemical was precipitated.

※ There was no observation for metaphase with both treatment of 24Hr and 48Hr at 1.0 mg/ml.

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

IARC Evaluation ; Group 2B

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)				Gap	Chromatid		Chromosome		Total		
							CTB	CTE	CSB	CSE	-G	+G	
DMSO	-		200	1.5	-	0.0	1.0	0.5	0.0	0.0	1.5	1.5	-
	+		200	2.0	-	0.0	0.5	0.5	0.0	0.0	1.0	1.0	-
Test Chemical	-	0.3	200	3.0	-	0.0	0.5	0.0	0.0	0.0	0.5	0.5	-
		0.6 *	200	8.5	±	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
		1.2 *	200	0.5	-	0.0	0.0	4.5	0.0	0.0	4.5	4.5	-
		1.8 *	200	0.5	-	0.5	4.5	6.0	0.0	0.0	8.5	8.5	±
		2.4 *	200	2.5	-	1.5	2.5	6.0	0.0	0.0	8.0	8.5	±
	+	0.3	200	1.5	-	0.0	0.5	0.0	0.0	0.0	0.5	0.5	-
		0.6 *	200	8.5	±	0.0	0.5	0.5	0.0	0.5	1.5	1.5	-
		1.2 *	200	1.5	-	0.5	0.5	2.5	0.0	0.0	3.0	3.0	-
		1.8 *	200	1.0	-	1.0	3.0	5.5	0.0	0.0	7.5	7.5	±
		2.4 *	200	3.5	-	0.0	1.0	4.5	0.0	0.0	5.5	5.5	±
Positive Control [B(a)P]	-	0.01	200	2.0	-	0.0	0.5	0.5	0.0	0.0	1.0	1.0	-
	+	0.01	200	2.0	-	0.5	5.0	18.5	0.0	0.0	21.0	21.0	+

* Test chemical was precipitated.