

o-Nitroaniline

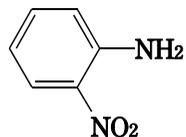
(C9406-1/2)

[o-ニトロアニリン]

Chemical Name; o-Nitroaniline  
 Synonym ; 1-Amino-2-nitrobenzene  
2-Nitroaniline  
2-Nitrobenzenamine  
 C. I. 37025  
C. I. Azoic Diazo Component 6  
1-アミノ-2-ニトロベンゼン  
2-ニトロアニリン  
2-ニトロベンゼンアミン  
アゾリック DC 6

Molecular Weight ; 138.13  
 Melting Point ; 72 °C [CHCD]  
 73 - 76 °C [Aldrich]  
 69 - 71 °C [Merck]  
 Boiling Point ; 284 °C [Aldrich, Merck]  
 Flashing Point ; - °C  
 Molecular Formula; C<sub>6</sub>H<sub>6</sub>N<sub>2</sub>O<sub>2</sub>

**Chemical Structure**



CAS No. ; 88-74-4  
 MITI No. ; (3)-392 , (5)-2301  
 ML No. ; 4-(12)-295  
 Specified Chemical Substances; -

Source of Substance; Wako Junyaku Kogyo Co., Ltd.  
 Lot No. ; DM9829  
 Purity ; 100.0 %  
 Vehicle ; DMSO

Experimental Data without Metabolic Activation

Substance	Treatment		No. of Metaphase	Polyploid (%)	Judge-ment	Cell with Structural Chromosome Aberration (%)							Judge-ment
	Time (h)	Concentration (mg/ml)				Chromatid		Chromosome		Total			
						Gap	CTB	CTE	CSB	CSE	-G	+G	
DMSO	24		200	1.5	-	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	0.063	200	4.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
		0.13	200	9.0	±	0.0	0.5	0.5	0.0	0.0	1.0	1.0	-
		0.25	200	1.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
	48	0.5	135	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
		1.0					No observation for metaphase						
		0.063	200	0.5	-	0.0	0.5	0.5	0.0	0.0	1.0	1.0	-
Positive Control [MMC]	48	0.13	200	7.0	±	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
		0.25	200	22.0	+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
		0.5					No observation for metaphase						
		1.0					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	+
Control [MMC]	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)				Gap	Chromatid		Chromosome		Total		
							CTB	CTE	CSB	CSE	-G	+G	
DMSO	-		200	0.5	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
	+		200	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
Test Chemical	-	0.1	200	2.5	-	0.0	0.0	0.0	0.0	0.5	0.5	0.5	-
		0.2	200	8.0	±	0.0	0.5	0.0	0.0	0.0	0.5	0.5	-
		0.4	200	11.5	+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
		0.6	200	3.5	-	0.0	0.0	0.5	0.0	0.0	0.5	0.5	-
		0.8	150	0.7	-	0.7	2.7	18.0	0.0	0.0	18.7	18.7	+
	+	0.1	200	2.5	-	0.0	0.5	3.0	0.0	0.5	4.0	4.0	-
		0.2	200	2.5	-	0.0	0.0	10.0	0.0	0.0	10.0	10.0	+
		0.4	200	1.5	-	0.5	0.5	13.5	0.0	0.0	14.0	14.5	+
		0.6	200	0.0	-	0.0	5.0	11.0	0.0	0.0	15.0	15.0	+
		0.8	79	1.3	-	3.8	7.6	30.4	0.0	0.0	32.9	35.4	+
Positive Control [B(a)P]	-	0.01	200	0.5	-	0.0	0.0	0.0	0.0	0.0	0.0	-	
	+	0.01	200	0.0	-	0.5	5.5	35.0	0.0	0.0	35.5	35.5	+