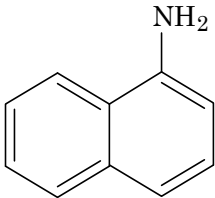


Chemical Name	: 1-Naphthylamine
Synonym	: <u>α-Naphthylamine</u> 1-Naphthalenamine 1-Aminonaphthalene <u>α-ナフチルアミン</u> <u>1-ナフタレンアミン</u>
Molecular Weight	: 143.19
Melting Point	: 50°C [CHCD]
Boiling Point	: 301°C [Aldrich]
Flashing Point	: 156°C [CHCD]
Molecular Formula	: C ₁₀ H ₉ N
Chemical Structure	
CAS No.	: 134-32-7
MITI No.	: (4)-321
ML No.	: -
Specified Chemical Substances	: G1
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: FHF01
Purity	: 99.9%
Vehicle	: DMSO

Substance	Treatment		No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)								
	Time (h)	Concentration (mg/ml)		%	Judgement	Chromosome					Total		Judgement	
						Gap	Chromatid	Chromosome		Others	-g	+g		
				g	ctb	cte	csb	cse						
DMSO	24	1.0%	200	1	-	0	0.5	0	0	0	0	0.5	0.5	-
	48	1.0%	200	0	-	0	0	0	0	0	0	0	0	-
Test Chemical	24	0.013	200	0.5	-	0	0.5	1	0	0	0	1.5	1.5	-
		0.025	200	0	-	0	2	10	0	0	0	12	12	+
		0.050	200	0	-	1	2	7	0	0	0	9	10	+
		0.10	200	0	-	0.5	5.5	12.5	0	0	0	17	17	+
		0.20	159	0	-	0	1.9	15.7	0.6	0	0	17.0	17.0	+
		0.40	No obserbation for metaphase											
	48	0.0063	200	0	-	0	0	1.5	0	0	0	1.5	1.5	-
		0.013	200	1.5	-	0	0.5	1	0	0	0	1	1	-
		0.025	200	0.5	-	1	2	3.5	0	0	0	4	4.5	-
		0.050	200	1	-	1.5	7.5	30	0	0.5	0	32	33	+
0.10	200	1.5	-	1	12.5	40	0	0	0	0	44	44	+	
	0.20	No obserbation for metaphase												
Positive Control [MMC]	24	0.00004	200	1	-	0.5	3	30.5	0	0	0	31.5	32	+
	48	0.00004	200	1	-	0	7	44	0	0	0	48	48	+

Judgement for
Chromosomal Aberration in CHL : Positive

IARC Evaluation : Group 3

Experimental Data with Metabolic Activation

Substance	Treatment		No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)								
	S9 mix	Concent- ration (mg/ml)		(%)	Judge- ment	Gap g	Chromatid		Chromosome		Others	Total		Judge- ment
							ctb	cte	csb	cse		-g	+g	
DMSO	-	1.0%	200	1.5	-	0	0	0.5	0	0	0	0.5	0.5	-
	+	1.0%	200	2	-	0	0.5	1	0	0	0	1	1	-
Test Chemical	-	0.050	200	1.5	-	0.5	0	0.5	0	0	0	0.5	1	-
		0.10	200	1	-	0.5	3	2.5	0	0	0	3	3.5	-
		0.20	200	6.5	±	0.5	8.5	10	0	0	0	12	12	+
		0.30	200	13.5	+	0	5.5	10	0	0	0	11	11	+
		0.40	200	4	-	0	4.5	9.5	0.5	0	0	11.5	11.5	+
		0.50	No obserbation for metaphase											
	+	0.0012	200	1	-	0	0.5	1	0	0	0	1	1	-
		0.0018	200	1	-	0.5	5	17	0	0	0	17	17	+
		0.0024	200	1	-	0.5	21	42	0	0	0	45	45.5	+
		0.0030	79	1.3	-	0	25.3	64.6	0	0	0	65.8	65.8	+
		0.0036	66	0	-	0	47.0	53.0	1.5	0	0	66.7	66.7	+
		0.0042	No obserbation for metaphase											
Positive Control [B[a]P]	-	0.01	200	1	-	0.5	0	0.5	0	0	0	0.5	1	-
	+	0.01	200	0.5	-	0	3.5	29	0	0	0	30	30	+

※ Test conditions: Treatment time ; 6h, Rcovery time ; 18h