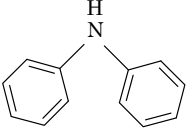


## Diphenylamine (ジフェニルアミン)

## Experimental Data (Short treatments)

Chemical Name : <u>Diphenylamine</u> Synonym : <u>N-Phenylaniline</u> <u>N-Phenylbenzenamine</u>  Molecular Weight : 169.23 Melting Point : 53-54°C[Merck] Boiling Point : 302°C[Merck] Flashing Point : 153°C[Merck] Molecular Formula : C <sub>12</sub> H <sub>11</sub> N  Chemical Structure ;    CAS No. : 122-39-4 METI No. : (3)-133 MHLW No. : - Specified Chemical Substances ; -  Source of Substance; Wako Jyunyaku Kogyo Co., Ltd.  Lot No. : SEQ1299 Purity : 99.7%  Vehicle : Dehydrated DMSO	Treatment Time (h)	S9 mix	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)						Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)				
				No. of Metaphase	Chromatid		Chromosome		Others			Total	No. of Metaphase	Poly-ploid	Others	Total
					ctb	cte	csb	cse								
6-18	-	[DMSO] (1%)	200	0	0	0	0	0	0	0	100	200	0	0	0	
		0.020	200	0.5	0.5	0	0	0	1	0	97	200	0	0	0	
		0.040	200	0.5	0.5	0	0	0	1	0.5	95	202	1	0	1	
		0.060	200	1	1.5	0	0	0	2.5	0	85	204	2	0	2	
		0.080	200	1.5	0.5	0	0	0	2	0	70	202	1	0	1	
		0.10	TOX								31	TOX				
		[MMC] (0.00012)	200	9	60	0	0	0	63.5	0.5	-	200	0	0	0	
6-18	+	[DMSO] (1%)	200	0	0	0	0	0	0	0	100	201	0.5	0	0.5	
		0.060	200	0	2	0	0	0	2	0	90	200	0	0	0	
		0.080	200	0	3	0	0	0	3	0	86	202	1	0	1	
		0.10	200	2	10.5	0	0	0	11	0.5	73	202	0.5	0.5	1	
		0.12	164	14	27.4	0	0	0	34.8	1.2	43	164	0	0	0	
		0.14	TOX								36	TOX				
		[B[a]P] (0.01)	200	4.5	28	0	0	0	29	0	-	201	0	0.5	0.5	

Judgement for Chromosomal Aberration in CHL/IU ; Positive

※ Test conditions: S9mix ; 5%, Treatment time ; 6h, Recovery time ; 18h

IARC Evaluation : not yet cited

Experimental Data without Metabolic Activation (Continuous treatments)

Treatment Time (h)	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)			
		No. of Metaphase	Chromatid		Chromosome		Others	Total			No. of Metaphase	Poly-ploid	Others	Total
			ctb	cte	csb	cse								
24-0	[DMSO] (1%)	200	1	0.5	0	0	0	1.5	0.5	100	201	0.5	0	0.5
	0.0040	200	2	0	0	0	0	2	1	90	202	1	0	1
	0.0080	200	1.5	0.5	0	0	0	2	0	81	201	0.5	0	0.5
	0.016	200	3	5.5	0	0	0	8	0	87	201	0.5	0	0.5
	0.024	200	11	6.5	0	0	0	17	1.5	73	200	0	0	0
	0.032	200	8.5	3.5	0	0	0	12	1	66	200	0	0	0
	[MMC] (0.00004)	200	9	35	0	0	0	42	1.5	—	200	0	0	0
48-0	[DMSO] (1%)	200	1.5	0.5	0	0	0	2	0	100	201	0.5	0	0.5
	0.016	200	1	1.5	0	0	0	2.5	1.5	82	200	0	0	0
	0.024	200	1	1	0	0	0	2	0	68	200	0	0	0
	0.032	200	5.5	5	0	0	0	9	0.5	61	202	1	0	1
	0.040	200	6	12	0	0	0	15	0.5	45	202	1	0	1
	0.048	200	13	13.5	0	0	0	22	0.5	39	201	0.5	0	0.5
	[MMC] (0.00004)	200	16	42	0	0	0	48	1.5	—	200	0	0	0

※ Test conditions: Treatment time ; 24h or 48h, Recovery time ; 0h