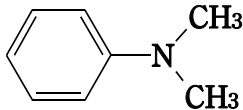


[N, N-ジメチルアニリン]

Chemical Name;	N, N-Dimethylaniline	
Synonym	; N, N-Dimethylbenzenamine Dimethylphenylamine N, N-ジメチルベンゼンアミン ジメチルフェニルアミン	
Molecular Weight	; 121.18	
Melting Point	; 2.5 ℃ [CHCD] 1.5 - 2.5 ℃ [Aldrich] 2 ℃ [Merck]	
Boiling Point	; 193 ℃, 77 ℃(13mmHg) [CHCD] 193 - 194 ℃ [Aldrich] 192 - 194 ℃ [Merck]	
Flashing Point	; 63 ℃ [CHCD] 62 ℃ [Aldrich] 61 ℃ [Merck]	
Molecular Formula;	C ₈ H ₁₁ N	
Chemical Structure		
		
CAS No.	; 121-69-7	
MITI No.	; (3)-114	
ML No.	; -	
Specified Chemical Substances;	-	
Source of Substance;	Tokyo Kasei Kogyo Co., Ltd.	
Lot No.	; FGA01	
Purity	; ≥ 99 %	
Vehicle	; DMSO	

Mutagenicity in Bacterial Test ; **Negative**

IARC Evaluation ; not yet cited

Conc. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	Ham. S9+	S9-	Ham. S9+	S9-	Ham. S9+	S9-	Ham. S9+	S9-	Ham. S9+
DMSO	(90)	(111)	(17)	(13)	(25)	(26)	(14)	(23)	(6)	(11)
	90	112	8	10	17	32	20	25	6	6
0.0763	(97)	(113)	(9)	(10)	(20)	(26)	(16)	(23)	(7)	(6)
	104	114	10	9	22	20	11	20	7	6
0.305	(106)	(113)	(10)	(8)	(25)	(31)	(12)	(21)	(8)	(5)
	87	102	10	15	20	28	5	29	9	6
1.22	(93)	(109)	(7)	(14)	(21)	(24)	(9)	(31)	(8)	(7)
	111	116	8	6	32	40	16	24	3	5
4.88	(99)	(114)	(7)	(8)	(24)	(30)	(13)	(24)	(5)	(6)
	86	111	5	10	15	20	9	23	6	6
19.5	(83)	(120)	(6)	(12)	(21)	(35)	(11)	(24)	(3)	(8)
	87	120	5	16	17	32	11	20	1	7
	79	119	6	8	25	38	10	28	5	9
78.1	(100)	(110)	(11)	(8)	(23)	(28)	(23)	(23)	(6)	(7)
	98	107	11	5	22	40	23	26	6	8
	102	112	11	10	23	16	23	20	6	5
313	(89)	(122)	(8)	(10)	(27)	(34)	(19)	(31)	(4)	(17)
	87	121	3	9	22	30	18	37	3	11
	91	122	13	11	31	38	20	25	5	22
1250	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
5000	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (765)	2-AA (5474)	NaN ₃ (500)	2-AA (403)	AF-2 (195)	2-AA (1505)	AF-2 (511)	2-AA (1454)	9-AA (707)	2-AA (956)

※ Ham. S9 : Hamster S9

Conc. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	Ham. S9+	S9-	Ham. S9+	S9-	Ham. S9+	S9-	Ham. S9+	S9-	Ham. S9+
	(122)	(138)	(10)	(10)	(30)	(27)	(16)	(25)	(5)	(5)
DMSO	111	136	15	8	32	33	18	26	6	6
	107	155	7	11	16	32	22	26	5	6
39.1	(109)	(146)	(11)	(10)	(24)	(33)	(20)	(26)	(6)	(6)
	97	137	8	17	29	29	18	28	10	6
	94	171	8	7	29	30	33	29	5	2
78.1	(96)	(154)	(8)	(12)	(29)	(30)	(26)	(29)	(8)	(4)
	130	134	9	6	34	36	17	17	5	3
	113	141	10	10	22	34	23	39	10	5
156	(122)	(138)	(10)	(8)	(28)	(35)	(20)	(28)	(8)	(4)
	114	139	9	8	21	33	29	25	6	5
	107	143	7	20	33	26	21	37	3	3
313	(111)	(141)	(8)	(14)	(27)	(30)	(25)	(31)	(5)	(4)
	72*	93*	6*	9*	15	33	21*	20*	5*	2*
	96*	107*	6*	3*	23	23	20*	23*	5*	7*
625	(84*)	(100*)	(6*)	(6*)	(19)	(28)	(21*)	(22*)	(5*)	(5*)
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
1250	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive	AF-2	2-AA	NaN ₃	2-AA	AF-2	2-AA	AF-2	2-AA	9-AA	2-AA
Control	(827)	(3309)	(438)	(489)	(209)	(1317)	(550)	(1463)	(548)	(660)

※ Ham. S9 : Hamster S9

Experimental Data - 3

Conc. µg/plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	Ham. S9+	S9-	Ham. S9+	S9-	Ham. S9+
DMSO	(264)	(364)	(349)	(452)	(44)	(75)
	248	371	326	430	32	75
	294	298	368	418	54	63
0.0763	(271)	(335)	(347)	(424)	(43)	(69)
	266	330	334	406	46	81
	249	328	307	407	48	77
0.305	(258)	(329)	(321)	(407)	(47)	(79)
	241	336	322	418	47	68
	242	358	326	401	53	55
1.22	(242)	(347)	(324)	(410)	(50)	(62)
	287	361	343	413	56	85
	246	342	354	454	63	69
4.88	(267)	(352)	(349)	(434)	(60)	(77)
	263	397	336	421	61	83
	260	346	318	406	52	69
19.5	(262)	(372)	(327)	(414)	(57)	(76)
	272	335	303*	410	46	67
	223	328	337*	356	57	77
78.1	(248)	(332)	(320*)	(383)	(52)	(72)
	263*	355	306*	429	54	64
	241*	341	350*	423	56	76
313	(252*)	(348)	(328*)	(426)	(55)	(70)
	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*
1250	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*
5000	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement	—	—	—	—	—	—
Specific Mutagenicity						
Positive Control	BLM (847)	2-AA (1673)	PA (1473)	2-AA (1922)	AF-2 (1022)	2-AA (1468)

※ Ham. S9 : Hamster S9

Experimental Data - 4

(B9506-3/3)

Conc. µg/plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	Ham. S9+	S9-	Ham. S9+	S9-	Ham. S9+
DMSO	(255)	(332)	(298)	(364)	(39)	(60)
			269			
			307			
1.22			(288)			
			286			
			328			
2.44			(307)			
	223		293			
	259		278			
4.88	(241)		(286)			
	256		335			
	252		246			
9.77	(254)		(291)			
	267	361	276	356	24	63
	250	421	301	356	38	74
19.5	(259)	(391)	(289)	(356)	(31)	(69)
	227	317	293*	382	66	61
	242	329	288*	342	48	68
39.1	(235)	(323)	(291*)	(362)	(57)	(65)
	238	337	263*	341	53	70
	249	338	282*	319	44	54
78.1	(244)	(338)	(273*)	(330)	(49)	(62)
	255	346	274*	366	30	70
	252	350	256*	358	47	64
156	(254)	(348)	(265*)	(362)	(39)	(67)
	245*	328		368	40	71
	255*	310		374	52	60
313	(250*)	(319)		(371)	(46)	(66)
	240*	207*		297*	41*	48*
	240*	216*		337*	40*	34*
625	(240*)	(212*)		(317*)	(41*)	(41*)
		0*		0*	0*	0*
		0*		0*	0*	0*
1250	(0*)	(0*)		(0*)	(0*)	(0*)
Judgement	—	—	—	—	—	—
Specific Mutagenicity						
Positive Control	BLM (763)	2-AA (1205)	PA (1383)	2-AA (1824)	AF-2 (1421)	2-AA (1620)

※ Ham. S9 : Hamster S9