

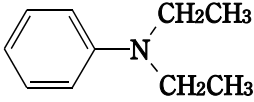
N,N-Diethylaniline

[N,N-ジエチルアニリン]

Chemical Name; N,N-Diethylaniline
 Synonym ; N,N-Diethylbenzenamine
N-Phenyldiethylamine
 DEA
N,N-ジエチルベンゼンアミン
N-フェニルジエチルアミン

Molecular Weight ; 149.24
 Melting Point ; - 38.8 °C [CHCD]
 - 38 °C [Aldrich;Merck]
 Boiling Point ; 215.5 °C [CHCD]
 217 °C [Aldrich]
 215-216°C, 62-66°C (3mmHg) [Merck]
 Flashing Point ; 97 °C [Aldrich]
 Molecular Formula; C₁₀H₁₅N

Chemical Structure



CAS No. ; 91-66-7
 MITI No. ; (3)-114
 ML No. ; -
 Specified Chemical Substances; -

Source of Substance; Tokyo Kasei Kogyo Co., Ltd.
 Lot No. ; GC01
 Purity ; ≥ 99 %

Vehicle ; DMSO

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	(91)	(111)	(17)	(13)	(25)	(26)	(14)	(24)	(6)	(12)
	101	123	9	6	17	30	9	23	8	6
	102	111	13	8	22	22	6	18	7	8
0.0763	(102)	(117)	(11)	(7)	(20)	(26)	(8)	(21)	(8)	(7)
	86	107	10	3	15	18	15	25	7	5
	76	126	6	10	24	28	16	25	5	10
0.305	(81)	(117)	(8)	(7)	(20)	(23)	(16)	(25)	(6)	(8)
	89	122	10	8	21	30	11	21	5	10
	93	108	6	8	25	32	17	25	6	2
1.22	(91)	(115)	(8)	(8)	(23)	(31)	(14)	(23)	(6)	(6)
	82	119	6	10	30	46	17	30	10	7
	96	134	13	10	32	23	7	25	3	11
4.88	(89)	(127)	(10)	(10)	(31)	(35)	(12)	(28)	(7)	(9)
	64	142	11	10	29	22	10	15	9	13
	101	136	7	14	26	33	11	32	3	7
19.5	(83)	(139)	(9)	(12)	(28)	(28)	(11)	(24)	(6)	(10)
	71	99	7	8	18	22	9	30	3	9
	69	96	6	5	22	17	15	24	6	11
78.1	(70)	(98)	(7)	(7)	(20)	(20)	(12)	(27)	(5)	(10)
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
313	(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*
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*)

Judgement - - - - -

Specific Mutagenicity

Mutagenicity in Bacterial Test ; **Negative**

IARC Evaluation ; not yet cited

Positive Control	AF-2 (749)	2-AA (5674)	NaN ₃ (501)	2-AA (406)	AF-2 (191)	2-AA (1406)	AF-2 (504)	2-AA (1469)	9-AA (636)	2-AA (956)
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※ 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+
	(120)	(135)	(9)	(9)	(30)	(26)	(15)	(25)	(5)	(5)
DMSO	112	145	15	13	30	46	17	33	8	5
	106	138	9	9	24	24	18	18	7	8
9.77	(109)	(142)	(12)	(11)	(27)	(35)	(18)	(26)	(8)	(7)
	109	139	5	13	29	23	13	28	3	7
	121	148	5	15	26	26	13	20	5	5
19.5	(115)	(144)	(5)	(14)	(28)	(25)	(13)	(24)	(4)	(6)
	92	136	14	11	28	34	13	30	2	3
	101	180	5	7	23	41	14	20	1	3
39.1	(97)	(158)	(10)	(9)	(26)	(38)	(14)	(25)	(2)	(3)
	112	120	9	7	23	22	29	28	8	11
	105	149	7	9	28	29	15	30	9	5
78.1	(109)	(135)	(8)	(8)	(26)	(26)	(22)	(29)	(9)	(8)
	0*	114*	0*	10*	0*	39	0*	23*	0*	5*
	0*	106*	0*	10*	0*	31	0*	22*	0*	5*
156	(0*)	(110*)	(0*)	(10*)	(0*)	(35)	(0*)	(23*)	(0*)	(5*)
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
313	(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	(831)	(3252)	(450)	(506)	(209)	(1384)	(547)	(1443)	(561)	(668)

※ 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	(262)	(365)	(341)	(450)	(42)	(73)
	274	387	326	470	24	84
	256	348	332	433	39	83
0.0763	(265)	(368)	(329)	(452)	(32)	(84)
	259	376	328	435	62	83
	250	346	355	449	39	76
0.305	(255)	(361)	(342)	(442)	(51)	(80)
	280	389	338	414	38	101
	263	342	341	477	45	76
1.22	(272)	(366)	(340)	(446)	(42)	(89)
	268	421	332	456	39	84
	232	332	328	455	49	67
4.88	(250)	(377)	(330)	(456)	(44)	(76)
	238	349	347	407	39	70
	271	364	336	417	53	78
19.5	(255)	(357)	(342)	(412)	(46)	(74)
	258	350	353	445	54	60
	215	347	380	393	46	76
78.1	(237)	(349)	(367)	(419)	(50)	(68)
	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*
313	(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*	0*	0*
	0*	0*	0*	0*	0*	0*
5000	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)

Judgement

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Specific
Mutagenicity

Positive Control	BLM (799)	2-AA (1698)	PA (1490)	2-AA (1965)	AF-2 (1015)	2-AA (1458)
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※ Ham. S9 : Hamster S9

Experimental Data - 4

(B9504-3/3)

Conc. µg/plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	Ham. S9+	S9-	Ham. S9+	S9-	Ham. S9+
DMSO	(270)	(340)	(294)	(362)	(46)	(76)
	206	331	336	291	24	76
	220	404	377	329	56	69
4.88	(213)	(368)	(357)	(310)	(40)	(73)
	269	362	367	329	41	101
	248	379	354	284	54	82
9.77	(259)	(371)	(361)	(307)	(48)	(92)
	262	401	342	311	47	104
	241	343	338	344	43	100
19.5	(252)	(372)	(340)	(328)	(45)	(102)
	263	320	382	272	53	84
	260	390	293	273	55	86
39.1	(262)	(355)	(338)	(273)	(54)	(85)
	252	367	347	305	49	90
	258	331	344	303	48	77
78.1	(255)	(349)	(346)	(304)	(49)	(84)
	0*	297	262*	0*	0*	83*
	0*	305	238*	0*	0*	63*
156	(0*)	(301)	(250*)	(0*)	(0*)	(73*)
	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*
313	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)

Judgement

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Specific
Mutagenicity

Positive Control	BLM (823)	2-AA (1647)	PA (1478)	2-AA (2007)	AF-2 (1662)	2-AA (2818)
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※ Ham. S9 : Hamster S9