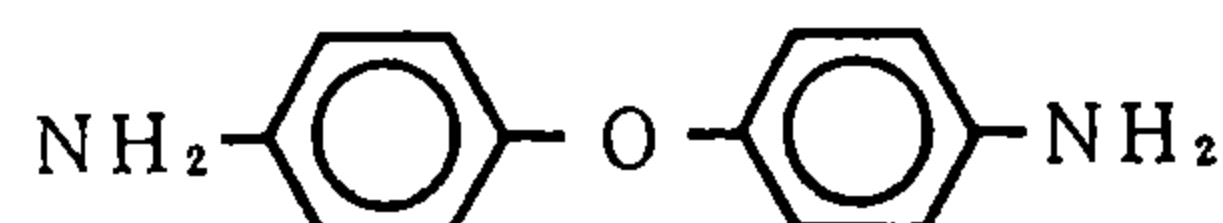


4,4'-Diaminodiphenyl ether (4,4'-ジアミノジフェニルエーテル)

Experimental Data

Chemical Name: Synonym Molecular weight: Melting point: Boiling point: Flashing point: Chemical Structure	Con. μg/ plate	Number of Revertants/plate									
		Base-substitution						Frame-shift			
		TA100		TA1535		WP2uvrA		TA98		TA1537	
		S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	DMSO	(197)	(207)	(9)	(13)	(34)	(40)	(37)	(42)	(11)	(19)
		201	248	8	14	26	40	45	52	9	20
	9.77	(186)	(242)	(9)	(14)	(30)	(43)	(38)	(58)	(10)	(21)
		171	236	9	14	33	46	31	64	10	21
		181	330	7	13	26	36	39	61	9	21
	19.5	(187)	(328)	(8)	(12)	(28)	(40)	(44)	(70)	(10)	(19)
		193	325	8	11	29	43	49	79	10	16
		240	671	8	13	29	40	39	77	13	17
	39.1	(227)	(649)	(8)	(16)	(29)	(42)	(43)	(87)	(12)	(17)
		213	627	8	18	29	43	47	97	11	17
		188	890	6	15	40	47	40	101	9	22
	78.1	(201)	(880)	(8)	(16)	(40)	(49)	(43)	(120)	(10)	(22)
		214	869	10	17	39	51	46	139	10	21
		218	1127	13	25	32	59	41	112	13	18
	156	(220)	(1130)	(12)	(25)	(32)	(65)	(41)	(116)	(12)	(18)
		221	1133	11	24	32	70	41	119	11	17
		223	1281	9	20	41	56	38	139	11	15
	313	(223)	(1307)	(15)	(21)	(37)	(61)	(39)	(144)	(10)	(15)
		222	1333	21	21	32	66	39	149	8	15
		214	1584	16	23	20	57	36	200	13	17
	625	(208)	(1443)	(16)	(22)	(32)	(67)	(40)	(198)	(10)	(19)
		202	1302	15	21	43	76	43	195	7	21
		259	2119	9	22	38	77	48	214	11	16
	1250	(254)	(2222)	(13)	(22)	(33)	(77)	(55)	(245)	(11)	(17)
		248	2325	17	22	28	76	62	275	10	17



CAS NO : 101-80-4  
 MITI NO: (3)-854  
 Source of Substance: Tokyo Kasei Kogyo Co. Ltd  
 Lot.No. : AVO2  
 Purity: ≥ 99 %  
 Vehicle: DMSO

Mutagenicity  
 in Bacterial Test : Positive

IARC Overall Evaluation : G 2B

continued to the next page

		Experimental Data									
Con. $\mu$ g/ plate	Number of Revertants/plate										
	Base-substitution						Frame-shift				
	TA100		TA1535		WP2uvrA		TA98		TA1537		
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	
	266	2463	9	26	23	69	66	269	9	18	
	292	2255	9	22	29	70	55	287	11	20	
<u>2500</u>	( 279 )	(2359)	( 9 )	( 24 )	( 26 )	( 70 )	( 61 )	( 278 )	( 10 )	( 19 )	
	344	2556	11	18	36	68	46	260	7	22	
	345	2587	6	16	43	72	52	266	7	30	
<u>5000*</u>	( 345 )	(2572)	( 9 )	( 17 )	( 40 )	( 70 )	( 49 )	( 263 )	( 7 )	( 26 )	
Judgement Specific Mutagenicity	-	+	-	-	-	-	-	+	-	-	
		11300						1150			
Positive Control	AF2	2AA	NaN3	2AA	AF2	2AA 20	AF2	2AA	9AA	2AA	
	( 896 )	( 713 )	( 597 )	( 207 )	( 226 )	(1401)	( 454 )	( 451 )	( 305 )	( 144 )	

\* : Substances in this concentration were markedly precipitated.

Experimental Data

Con. $\mu$ g/ plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
<u>DMSO</u>	( 169 )	( 184 )	( 9 )	( 15 )	( 27 )	( 34 )	( 26 )	( 29 )	( 10 )	( 15 )
		172						24		
		193						40		
<u>2.44</u>		( 183 )						( 32 )		
		192						43		
		202						38		
<u>4.88</u>		( 197 )						( 41 )		
		214						43		
		239						43		
<u>9.77</u>		( 227 )						( 43 )		
		367						40		
		400						46		
<u>19.5</u>		( 384 )						( 43 )		
		566		9				78		
		640		13				69		
<u>39.1</u>		( 603 )		( 11 )				( 74 )		
	162	843	11	17	34	46	33	70	9	11
	172	763	8	17	36	40	20	83	2	10
<u>78.1</u>	( 167 )	( 803 )	( 10 )	( 17 )	( 35 )	( 43 )	( 27 )	( 77 )	( 6 )	( 11 )
	195	1062	14	22	29	38	14	104	7	15
	187	1071	10	13	29	41	26	117	7	15
<u>156</u>	( 191 )	( 1067 )	( 12 )	( 17 )	( 29 )	( 40 )	( 20 )	( 111 )	( 7 )	( 15 )
	209		9	17	16	36	29		8	14
	228		11	15	32	34	24		5	15
<u>313</u>	( 219 )		( 10 )	( 16 )	( 24 )	( 35 )	( 27 )		( 7 )	( 15 )
	219		7	22	33	46	25		6	10
	227		11	13	34	46	32		1	14
<u>625</u>	( 223 )		( 9 )	( 22 )	( 34 )	( 46 )	( 29 )		( 4 )	( 12 )

continued to the next page

Experimental Data										
Con. μg/ plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	258		8	20	33	52	32		2	10
	279		6	23	23	43	33		3	15
<u>1250</u>	( 269 )		( 7 )	( 22 )	( 28 )	( 48 )	( 33 )		( 3 )	( 13 )
	265		6	21	30	62	31		6	11
	284		8	17	37	53	31		6	20
<u>2500</u>	( 275 )		( 7 )	( 19 )	( 34 )	( 58 )	( 31 )		( 6 )	( 16 )
	329		5	24	30	52	21		2	8
	319		8	15	28	55	31		3	9
<u>5000*</u>	( 324 )		( 7 )	( 20 )	( 29 )	( 54 )	( 26 )		( 3 )	( 9 )
Judgement	-	+	-	-	-	-	-	+	-	-
Specific Mutagenicity		10700						1150		
Positive Control	AF2	2AA	NaN3	2AA	AF2	2AA 20	AF2	2AA	9AA	2AA
	( 783 )	( 962 )	( 543 )	( 272 )	( 177 )	( 1489 )	( 380 )	( 498 )	( 283 )	( 182 )

\* : Substances in this concentration were markedly precipitated.