

[2-メトキシ-5-メチルアニリン]

Chemical Name; 2-Methoxy-5-methylaniline

Synonym ; 2-Amino-4-methylanisole

5-Methyl-*o*-anisidine*p*-Cresidine

2-アミノ-4-メチルアニソール

5-メチル-*o*-アニシジン*p*-クレジジン

Molecular Weight ; 137.18

Melting Point ; 51 - 52 °C [CHCD]

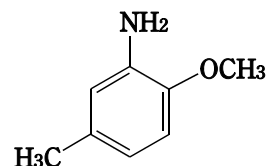
52 - 54 °C [Aldrich]

Boiling Point ; 235 °C [CHCD;Aldrich]

Flashing Point ; > 110 °C [Aldrich]

Molecular Formula; C₈H₁₁NO

Chemical Structure



CAS No. ; 120-71-8

MITI No. ; (3)-614

ML No. ; -

Specified Chemical Substances; -

Source of Substance; Tokyo Kasei Kogyo Co., Ltd.

Lot No. ; GB01

Purity ; 99.5 %

Vehicle ; DMSO

Mutagenicity in Bacterial Test ; Positive

IARC Evaluation ; Group 2B

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)	(109)	(16)	(12)	(25)	(27)	(14)	(24)	(5)	(12)
	102	144	5	11	15	23	16	29	3	10
	83	133	9	3	23	30	16	21	6	16
0.0763	(93)	(139)	(7)	(7)	(19)	(27)	(16)	(25)	(5)	(13)
	92	117	6	8	36	25	20	20	6	8
	105	129	18	15	16	28	18	24	7	7
0.305	(99)	(123)	(12)	(12)	(26)	(27)	(19)	(22)	(7)	(8)
	97	119	9	15	26	21	17	14	1	8
	90	123	11	11	24	21	26	13	8	6
1.22	(94)	(121)	(10)	(13)	(25)	(21)	(22)	(14)	(5)	(7)
	85	133	7	7	11	18	11	32	3	5
	92	135	8	9	9	25	10	30	7	8
4.88	(89)	(134)	(8)	(8)	(10)	(22)	(11)	(31)	(5)	(7)
	81	156	10	9	26	25	11	23	5	9
	98	165	7	11	16	20	14	28	6	13
19.5	(90)	(161)	(9)	(10)	(21)	(23)	(13)	(26)	(6)	(11)
	94	229	7	9	26	38	6	21	2	6
	102	194	8	10	17	24	9	32	5	5
78.1	(98)	(212)	(8)	(10)	(22)	(31)	(8)	(27)	(4)	(6)
	86	284	11	7	28	17	16	45	8	23
	105	295	7	6	21	29	13	44	5	22
313	(96)	(290)	(9)	(7)	(25)	(23)	(15)	(45)	(7)	(23)
	115	297	6	7	17	31	14	102	3	23
	115	294	9	6	20	22	17	105	6	24
1250	(115)	(296)	(8)	(7)	(19)	(27)	(16)	(104)	(5)	(24)
	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	578						64.0		9.60	
Positive Control	AF-2 (752)	2-AA (5479)	NaN ₃ (502)	2-AA (404)	AF-2 (195)	2-AA (1516)	AF-2 (502)	2-AA (1452)	9-AA (720)	2-AA (962)

※ 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+
DMSO	(122)	(138)	(10)	(9)	(29)	(27)	(15)	(24)	(5)	(5)
		172								
		184								
19.5		(178)								
		197						29		
		236						24		
39.1		(217)						(27)		
		253						28		3
		256						26		2
78.1		(255)						(27)		(3)
	85	303	15	13	21	33	14	25	5	6
	114	298	9	7	10	28	14	25	1	6
156	(100)	(301)	(12)	(10)	(16)	(31)	(14)	(25)	(3)	(6)
	114	342	5	17	23	18	11	46	1	3
	120	338	11	8	30	40	23	53	3	9
313	(117)	(340)	(8)	(13)	(27)	(29)	(17)	(50)	(2)	(6)
	137	326	7	9	21	31	18	61	1	8
	114	379	7	7	18	24	20	75	5	13
625	(126)	(353)	(7)	(8)	(20)	(28)	(19)	(68)	(3)	(11)
	116		5	5	33	22	21	128	3	14
	135		10	7	26	33	11	116	2	20
1250	(126)		(8)	(6)	(30)	(28)	(16)	(122)	(3)	(17)
	0*		0*	0*	14*	29	11		0*	0*
	0*		0*	0*	13*	23	7		0*	0*
2500	(0*)		(0*)	(0*)	(14*)	(26)	(9)		(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*)
Judgement	-	+	-	-	-	-	-	+	-	+
Specific Mutagenicity		1040						83.1		9.60
Positive Control	AF-2 (824)	2-AA (3407)	NaN ₃ (460)	2-AA (507)	AF-2 (207)	2-AA (1336)	AF-2 (537)	2-AA (1430)	9-AA (565)	2-AA (661)

※ Ham. S9 : Hamster S9