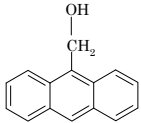


Experimental Data-1

(B0201-1/3)

9-Anthracenemethanol (9-アントラセンメタノール)

Chemical Name	: 9-Anthracenemethanol
Synonym	: 9-Hydroxymethylanthracene
Molecular Weight	: 208.26
Melting Point	: 162-164°C [CHCD]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C ₁₅ H ₁₂ O
Chemical Structure:	
CAS No.	: 1468-95-7
METI No.	: -
MHLW No.	: 7-(1)-654
Specified Chemical Substances:	-
Source of Substance:	Ryoyo Trading Co., Ltd.
Lot No.	: 80929
Purity	: 99%
Vehicle	: DMSO

Conc. μ g/plate	Number of Revertants/plate														
	Base-substitution									Frame-shift					
	TA100			TA1535			WP2uvrA/pKM101			TA98			TA1537		
	S9-	S9+ 10%	S9+ 30%	S9-	S9+ 10%	S9+ 30%	S9-	S9+ 10%	S9+ 30%	S9-	S9+ 10%	S9+ 30%	S9-	S9+ 10%	S9+ 30%
DMSO	(111)	(113)	(116)	(9)	(9)	(16)	(86)	(121)	(130)	(13)	(26)	(26)	(7)	(8)	(10)
1 .22	101	123	143	11	9	8	90	131	138	16	18	29	11	5	14
	(106)	(130)	(139)	(11)	(12)	(11)	(92)	(123)	(131)	(15)	(21)	(28)	(10)	(5)	(12)
4 .88	114	106	130	11	9	9	94	141	139	13	20	21	14	9	13
	(108)	(114)	(122)	(11)	(8)	(8)	(89)	(152)	(145)	(15)	(22)	(26)	(11)	(10)	(12)
19 .5	102	195	179	7	8	14	89	171	143	15	36	24	8	11	14
	(101)	(189)	(191)	(10)	(8)	(10)	(89)	(164)	(158)	(16)	(34)	(24)	(7)	(10)	(19)
78 .1	93	215	241	11	8	7	54	158	173	10	26	28	2	18	16
	(98)	(221)	(278)	(13)	(8)	(9)	(58)	(155)	(169)	(13)	(25)	(31)	(5)	(16)	(17)
313	76	204	285	15	15	15	66	129	138	13	25	52	8	13	13
	(81)	(209)	(298)	(13)	(16)	(15)	(75)	(125)	(147)	(15)	(23)	(46)	(7)	(14)	(14)
1250 †	78	172	243	9	8	11	65	111	139	9	26	30	5	7	16
	(69)	(183)	(235)	(9)	(9)	(12)	(50)	(114)	(134)	(12)	(25)	(30)	(5)	(11)	(19)
5000 †	64	94	130	12	14	13	36	75	105	17	15	20	3	5	11
	(51)	(83)	(113)	(10)	(16)	(14)	(42)	(83)	(97)	(15)	(18)	(26)	(5)	(9)	(9)
Judgement	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
Specific Mutagenicity			2070											102	
Positive Control	AF-2 (675)	2-AA (1424)	2-AA (373)	NaN ₃ (378)	2-AA (244)	2-AA (127)	AF-2 (1503)	2-AA (883)	2-AA (307)	AF-2 (475)	2-AA (413)	2-AA (140)	9-AA (445)	2-AA (191)	2-AA (56)

† Test chemical was precipitated with and without S9mix.

Mutagenicity in Bacterial Test: Positive

IARC Evaluation : not yet cited

Conc. μ g/plate	Number of Revertants/plate														
	Base-substitution									Frame-shift					
	TA100			TA1535			WP2uvrA/pKM101			TA98			TA1537		
	S9-	S9+ 10%	S9+ 30%	S9-	S9+ 10%	S9+ 30%	S9-	S9+ 10%	S9+ 30%	S9-	S9+ 10%	S9+ 30%	S9-	S9+ 10%	S9+ 30%
DMSO	(117)	(115)	(126)	(10)	(11)	(8)	(91)	(131)	(143)	(15)	(26)	(26)	(9)	(10)	(13)
		157	127											10	15
9.77	()	(152)	(129)	()	()	()	()	()	()	()	()	()	()	(9)	(12)
		163	148											13	17
19.5	()	(173)	(151)	()	()	()	()	()	()	()	()	()	()	(18)	(16)
		169	187											16	17
39.1	()	(184)	(206)	()	()	()	()	()	()	()	()	()	()	(17)	(23)
		230	259											17	16
78.1	()	(222)	(251)	()	()	()	()	()	()	()	()	()	()	(16)	(15)
		214	313											16	20
156	()	(206)	(303)	()	()	()	()	()	()	()	()	()	()	(15)	(18)
	74	208	261	11	8	15	78	143	181	18	32	43	6	18	21
313	(73)	(205)	(266)	(8)	(8)	(12)	(82)	(148)	(186)	(16)	(35)	(37)	(7)	(14)	(18)
	62	205	264	6	6	12	64	174	177	13	34	25	5	12	11
625 †	(65)	(194)	(258)	(7)	(6)	(11)	(71)	(171)	(164)	(11)	(33)	(30)	(7)	(16)	(13)
	70	189	218	8	9	8	68	136	171	12	17	45	10	21	14
1250 †	(70)	(189)	(237)	(10)	(11)	(8)	(57)	(149)	(201)	(14)	(22)	(45)	(9)	(16)	(10)
	59	130	144	6	6	6	51	126	174	11	19	32	6	6	16
2500 †	(62)	(139)	(138)	(6)	(8)	(9)	(62)	(120)	(171)	(10)	(24)	(31)	(6)	(11)	(12)
	40	77	87	9	4	7	60	107	123	5	20	18	5	9	13
5000 †	(40)	(72)	(79)	(8)	(5)	(10)	(58)	(118)	(123)	(5)	(19)	(20)	(4)	(11)	(14)
Judgement	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity			1130												
Positive Control	AF-2 (687)	2-AA (1264)	2-AA (334)	NaN ₃ (392)	2-AA (249)	2-AA (96)	AF-2 (1526)	2-AA (784)	2-AA (274)	AF-2 (461)	2-AA (455)	2-AA (99)	9-AA (382)	2-AA (173)	2-AA (51)

† Test chemical was precipitated with and without S9mix.

Conc. μ g/plate	Number of Revertants/plate	
	Base-substitution	Frame-shift
DMSO	WP2 <i>uvrA</i> /pKM101	TA1537
	S9+ 30%	S9+ 10%
	(103)	(11)
9 .77	()	11 9 (10)
	()	13 13 (13)
19 .5	()	11 16 (14)
	()	9 20 (15)
39 .1	()	20 15 (18)
	()	160 144 (152)
78 .1	()	13 14 (14)
	()	138 142 (140)
156	()	16 13 (15)
	()	137 125 (131)
313	()	18 17 (18)
	()	94 58 (76)
625 †	()	16 17 (17)
	()	43 41 (42)
1250 †	()	8 5 (7)
	()	—
Judgement	—	—
Specific Mutagenicity		
Positive Control	2-AA (293)	2-AA (194)

† Test chemical was precipitated with and without S9mix.