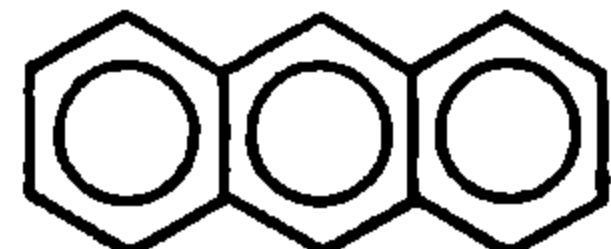


Anthracene (アントラセン)

Experimental Data

Chemical Name: Anthracene
Synonym
Molecular weight: 178.23
Boiling point: 340°C
Melting point: 216~218°C
Chemical Structure

CAS No: 120-12-7
MITI No: (4)-683
Source of Substance: Aldrich
Lot.No.: 02805AV
Purity: 99.9 %
Vehicle: DMSO

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	(123)	(124)	(23)	(12)	(48)	(42)	(17)	(26)	(6)	(8)
	136	170	21	12	47	45	15	38	6	9
	118	128	27	15	43	43	16	51	2	7
50	(127)	(149)	(24)	(14)	(45)	(44)	(16)	(45)	(4)	(8)
	124	149	20	16	45	53	18	35	2	7
	139	173	10	14	42	44	13	35	4	1
100	(132)	(161)	(15)	(15)	(44)	(49)	(16)	(35)	(3)	(9)
	125	148	31	12	45	52	15	33	5	9
	130	182	18	12	55	43	8	40	3	8
200	(128)	(165)	(25)	(12)	(50)	(48)	(12)	(37)	(4)	(9)
	124	151	15	12	31	56	12	34	9	4
	112	131	19	13	42	55	16	53	4	9
500	(118)	(141)	(17)	(13)	(37)	(56)	(14)	(44)	(7)	(7)
	98	171	23	13	34	44	13	35	4	7
	99	156	18	10	41	47	14	44	2	6
1000	(99)	(164)	(21)	(12)	(38)	(46)	(14)	(40)	(3)	(7)
	109	180	13	13	46	48	15	30	3	11
	112	163	19	15	39	43	12	30	4	11
2000	(111)	(172)	(16)	(14)	(43)	(46)	(14)	(30)	(4)	(11)
	123	169	19	10	48	43	12	36	1	10
	83	144	16	9	41	42	13	34	3	10
5000	(103)	(157)	(18)	(10)	(45)	(43)	(13)	(35)	(2)	(10)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive	AF2	2AA	NaN <sub>3</sub>	2AA	AF2	2AA	AF2	2AA	9AA	2AA
Control	(715)	(990)	(309)	(426)	(695)	(1009)	(431)	(298)	(521)	(236)

Mutagenicity  
in Bacterial test: Negative

IARC Evaluation: G 3