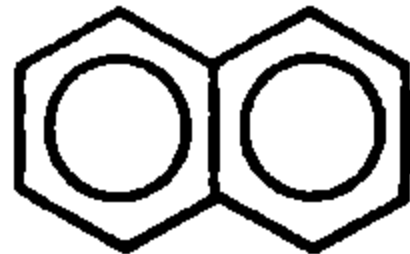


Naphthalene (ナフタレン)

Experimental Data

Chemical Name: Naphthalene  
 Synonym: Naphthalin  
 Molecular weight: 128.17  
 Melting point: 79~81°C  
 Boling point: 217.7°C  
 Flashing point: 78°C

Chemical Structure



CAS No : 91-20-3  
 MITI No: (4)-311  
 Source of Substance: Doujin Kagaku Co.  
 Lot.No. : UA215  
 Purity: 99.95%  
 Vehicle: Acetone

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+
Acetone	(135)	(136)	(22)	(11)			(15)	(22)	(4)	(6)
	149	140	20	13			11	26	6	8
	148	158	21	11			17	26	6	7
1	(149)	(149)	(21)	(12)			(14)	(26)	(6)	(8)
	131	134	19	11			16	27	7	4
	132	149	19	10			15	29	5	4
2	(132)	(142)	(19)	(11)			(16)	(28)	(6)	(4)
	122	145	21	10			14	30	6	8
	142	136	19	12			9	29	7	7
5	(132)	(141)	(20)	(11)			(12)	(30)	(7)	(8)
	146	132	18	9			10	25	5	4
	150	164	20	10			12	19	6	4
10	(148)	(148)	(19)	(10)			(11)	(22)	(6)	(4)
	156	150	21	10			15	26	5	6
	150	145	22	9			15	18	3	4
20	(153)	(148)	(22)	(10)			(15)	(22)	(4)	(5)
	148	146	10	12			14	29	5	5
	159	134	19	9			18	31	5	11
50	(154)	(140)	(15)	(11)			(16)	(30)	(5)	(8)
	151	127*	27	7*			13	4*	6	7*
	118	113*	21	9*			10	7*	8	8*
100	(135)	(120*)	(24)	(8*)			(12)	(6*)	(7)	(8*)
Judgement	-	-	-	-			-	-	-	-
Specific Mutagenicity										
Positive	AF2	2AA	NaN <sub>3</sub>	2AA			AF2	2AA	9AA	2AA
Control	(665)	(1503)	(277)	(461)			(434)	(312)	(682)	(322)

Mutagenicity  
 in Bacterial test: Negative

IARC Evaluation: not yet cited

Experimental Data

Con. $\mu$ g/ plate	Number of Revertants/plate	
	Base-substitution	
	WP2uvrA	
	S9-	S9+
<u>Acetone</u>	(42)	(45)
	43	60
	40	40
<u>10</u>	(42)	(50)
	39	55
	42	47
<u>20</u>	(41)	(51)
	30	48
	46	43
<u>50</u>	(38)	(46)
	39	32
	35	29
<u>100</u>	(37)	(31)
	26	34
	19	29
<u>200</u>	(23)	(32)
	20*	22*
	21*	31*
<u>500</u>	(21*)	(27*)
	0*	0*
	0*	0*
<u>1000</u>	( 0*)	( 0*)
Judgement	—	—
Specific Mutagenicity		
Positive	NaN <sub>3</sub>	2AA
Control	(503)	(669)