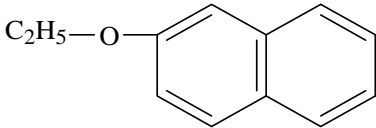


Chemical Name	; <u>2-Ethoxynaphthalene</u>
	; <u>Naphthalene, 2-ethoxy-</u>
	<u>Ethyl 2-naphthyl ether</u>
	<u>β-Naphthyl ethyl ether</u>
	<u>β-ナフチルエチルエーテル</u>
Molecular Weight	; 172.23
Melting Point	; 37-38°C[Aldrich]
Boiling Point	; 282°C[Aldrich]
Flashing Point	; -
Molecular Formula	; C ₁₂ H ₁₂ O
Chemical Structure	
	
CAS No.	; 93-18-5
MITI No.	; (4)-362
ML No.	; -
Specified Chemical Substances	; -
Source of Substance	; Tokyo Kasei Kogyo Co., Ltd.
Lot No.	; AV01
Purity	; >98%
Vehicle	; DMSO

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 _{uvrA} /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(119)	(117)	(12)	(13)	(64)	(87)	(19)	(26)	(6)	(9)
1 .22	115 105 (110)	135 137 (136)	15 14 (15)	14 13 (14)	74 70 (72)	94 76 (85)	23 15 (19)	20 30 (25)	2 5 (4)	8 6 (7)
4 .88	105 130 (118)	174 170 (172)	6 11 (9)	8 10 (9)	69 75 (72)	70 85 (78)	18 13 (16)	26 33 (30)	3 5 (4)	5 9 (7)
19 .5	124 113 (119)	157 142 (150)	7 5 (6)	11 15 (13)	67 68 (68)	82 85 (84)	16 18 (17)	32 32 (32)	3 2 (3)	13 9 (11)
78 .1	0 * 0 * (0 *)	152 155 (154)	0 * 0 * (0 *)	6 10 (8)	0 * 0 * (0 *)	83 90 (87)	0 * 0 * (0 *)	28 28 (28)	0 * 0 * (0 *)	8 11 (10)
313	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	66 * 68 * (67 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)
1250	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	17 * 26 * (22 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)
5000	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)	0 * 0 * (0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (546)	2-AA (1000)	NaN ₃ (398)	2-AA (255)	AF-2 (959)	2-AA (760)	AF-2 (499)	2-AA (420)	9-AA (446)	2-AA (182)

* Growth inhibition was observed.

Experimental Data-2

(B9806-2/3)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(140)	(134)	(9)	(8)	(57)	(81)	(15)	(26)	(7)	(10)
1 .22	120	181	6	7	39	70	10	34	3	11
	141	172	11	10	41	69	11	25	9	2
2 .44	136	166	9	5	48	91	16	25	7	6
	152	181	8	14	61	87	15	30	8	6
4 .88	148	165	9	9	57	77	11	22	2	11
	148	181	7	9	40	66	13	26	8	9
9 .77	130	162	7	5	62	91	14	23	5	11
	128	183	8	8	67	91	13	22	14	11
19 .5	117	141	6	5	56	87	9	21	5	8
	151	129	5	7	51	79	18	20	6	9
39 .1	0 *	0 *	0 *	0 *	37 *	57	0 *	0 *	0 *	0 *
	0 *	0 *	0 *	0 *	20 *	71	0 *	0 *	0 *	0 *
78 .1	(0 *)	(0 *)	(0 *)	(0 *)	(29 *)	(64)	(0 *)	(0 *)	(0 *)	(0 *)
	0 *	0 *	0 *	0 *	0 *	43 *	0 *	0 *	0 *	0 *
Judgement	0 *	0 *	0 *	0 *	0 *	31 *	0 *	0 *	0 *	0 *
	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(37 *)	(0 *)	(0 *)	(0 *)	(0 *)
Specific Mutagenicity	—	—	—	—	—	—	—	—	—	—
Positive Control	AF-2 (654)	2-AA (1141)	NaN ₃ (401)	2-AA (234)	AF-2 (873)	2-AA (717)	AF-2 (475)	2-AA (468)	9-AA (459)	2-AA (147)

Experimental Data-3

(B9806-3/3)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(142)	(145)	(8)	(11)	(53)	(82)	(14)	(17)	(6)	(10)
	136		10		29		10		5	
2 .44	(154)		(9)		(42)		(11)		(4)	
	172		8		55		11		3	
4 .88	(153)		(8)		(54)		(13)		(9)	
	163		10		61		13		9	
	143		6		47		13		8	
9 .77	(143)	(174)	(7)	(11)	(61)		(14)	(18)	(8)	(11)
	143	184	8	13	63		13	18	5	9
	142	163	5	8	59		14	18	10	13
19 .5	(143)	(182)	(6)	(8)	(49)	(63)	(18)	(20)	(8)	(10)
	135	176	7	9	51	54	18	21	9	9
	150	188	5	7	46	72	18	18	6	10
39 .1	(71 *)	(200)	(0 *)	(10)	(45 *)	(73)	(9 *)	(19)	(4 *)	(12)
	70 *	181	0 *	9	45 *	71	9 *	16	3 *	11
	71 *	218	0 *	10	44 *	74	9 *	22	5 *	13
78 .1		(161)		(8)		(70)		(20)		(9)
		156		8		68		16		9
		166		8		72		24		8
156		(0 *)		(0 *)		(46)		(13 *)		(0 *)
		0 *		0 *		53		9 *		0 *
		0 *		0 *		38		16 *		0 *
313						(35 *)				
						31 *				
						39 *				
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 (619)	2-AA (1150)	NaN ₃ (418)	2-AA (265)	AF-2 (1038)	2-AA (926)	AF-2 (437)	2-AA (384)	9-AA (422)	2-AA (183)