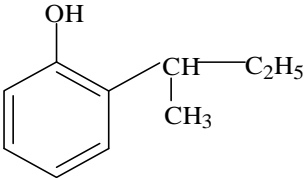


Chemical Name	: <u>2-sec-Butylphenol</u>
Synonym	: <u>2-(1-Methylpropyl)phenol</u> <u>o-sec-Butylphenol</u>
Molecular Weight	: 150.22
Melting Point	: 12°C[Aldrich]
Boiling Point	: 226-228°C[Aldrich]
Flashing Point	: 112°C[Aldrich]
Molecular Formula	: C ₁₀ H ₁₄ O
Chemical Structure	
CAS No.	: 89-72-5
MITI No.	: (3)-503
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: FHF01
Purity	: -
Vehicle	: DMSO

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+
	(168)	(168)	(13)	(17)	(63)	(80)	(14)	(27)	(7)	(10)
	141	214	15	14	51	87	10	28	3	8
0.610	(154)	(188)	(15)	(18)	(58)	(94)	(17)	(29)	(5)	(11)
	185	256	14	24	66	93	11	37	5	13
2.44	(189)	(258)	(16)	(23)	(64)	(96)	(17)	(33)	(5)	(9)
	175	233	13	21	63	78	17	31	6	7
9.77	(182)	(240)	(15)	(18)	(56)	(79)	(19)	(30)	(7)	(6)
	164	253	18	25	68	97	20	22	3	10
39.1	(172)	(263)	(16)	(19)	(63)	(84)	(23)	(28)	(5)	(9)
	0 *	180 *	0 *	0 *	0 *	54 *	0 *	18 *	0 *	3 *
156	(0 *)	(165 *)	(0 *)	(0 *)	(0 *)	(54 *)	(0 *)	(21 *)	(0 *)	(3 *)
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
625	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
2500	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
10000	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)	(0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (831)	2-AA (1564)	NaN ₃ (494)	2-AA (274)	AF-2 (1424)	2-AA (1001)	AF-2 (482)	2-AA (489)	9-AA (437)	2-AA (221)

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

Experimental Data-2

(B9820-2/2)

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+
	(155)	(162)	(11)	(14)	(56)	(79)	(17)	(24)	(5)	(8)
2 .44	171	219	10	11	39	89	14	26	3	8
	183 (177)	186 (203)	8 (9)	14 (13)	47 (43)	71 (80)	11 (13)	31 (29)	3 (3)	15 (12)
4 .88	137	213	3	6	57	60	22	25	8	6
	139 (138)	208 (211)	8 (6)	6 (6)	49 (53)	68 (64)	17 (20)	22 (24)	5 (7)	8 (7)
9 .77	162	228	9	8	64	74	14	28	5	6
	146 (154)	240 (234)	11 (10)	6 (7)	66 (65)	74 (74)	10 (12)	26 (27)	7 (6)	13 (10)
19 .5	155	186	6	15	59	79	20	33	5	3
	162 (159)	226 (206)	14 (10)	13 (14)	57 (58)	69 (74)	14 (17)	23 (28)	7 (6)	9 (6)
39 .1	164	223	8	13	72	82	16	40	5	5
	155 (160)	200 (212)	5 (7)	10 (12)	52 (62)	72 (77)	13 (15)	36 (38)	5 (5)	7 (6)
78 .1	159	219	3 *	10	52	77	15	40	8	8
	137 (148)	197 (208)	1 * (2 *)	15 (13)	54 (53)	66 (72)	17 (16)	21 (31)	5 (7)	8 (8)
156	0 *	0 *	0 *	0 *	0 *	48 *	0 *	0 *	0 *	0 *
	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	41 * (45 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)	0 * (0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (579)	2-AA (1371)	NaN ₃ (394)	2-AA (265)	AF-2 (911)	2-AA (867)	AF-2 (448)	2-AA (469)	9-AA (372)	2-AA (214)