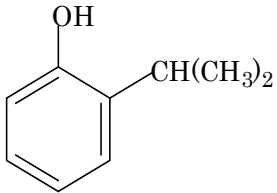


## 2-Isopropylphenol (2-イソプロピルフェノール)

## Experimental Data-1

(B9705-1/2)

Chemical Name	: 2-Isopropylphenol
Synonym	: 2-(1-Methylethyl)phenol o-Isopropylphenol o-Hydroxycumene o-イソプロピルフェノール
Molecular Weight	: 136.19
Melting Point	: 15-16°C[Aldrich]
Boiling Point	: 212-213°C[Aldrich]
Flashing Point	: 89°C[Aldrich]
Molecular Formula	: C <sub>9</sub> H <sub>12</sub> O
Chemical Structure	
CAS No.	: 88-69-7
MITI No.	: (3)-503
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: FHE01
Purity	: >98%
Vehicle	: DMSO

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	( 129 )	( 139 )	( 7 )	( 12 )	( 41 )	( 53 )	( 17 )	( 30 )	( 7 )	( 6 )
	128	181	7	10	37	56	15	24	3	9
	158	160	8	10	31	66	15	33	3	10
1 .22	( 143 )	( 171 )	( 8 )	( 10 )	( 34 )	( 61 )	( 15 )	( 29 )	( 3 )	( 10 )
	116	164	5	13	40	83	17	31	7	7
	129	163	9	9	37	92	24	22	3	6
4 .88	( 123 )	( 164 )	( 7 )	( 11 )	( 39 )	( 88 )	( 21 )	( 27 )	( 5 )	( 7 )
	162	199	11	11	49	74	13	25	5	7
	141	170	8	9	48	54	16	18	5	7
19 .5	( 152 )	( 185 )	( 10 )	( 10 )	( 49 )	( 64 )	( 15 )	( 22 )	( 5 )	( 7 )
	128	195	7	16	53	60	21	26	7	7
	145	181	7	14	48	63	15	23	3	8
78 .1	( 137 )	( 188 )	( 7 )	( 15 )	( 51 )	( 62 )	( 18 )	( 25 )	( 5 )	( 8 )
	0 *	0 *	0 *	0 *	0 *	22 *	0 *	0 *	0 *	0 *
	0 *	0 *	0 *	0 *	0 *	14 *	0 *	0 *	0 *	0 *
313	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 18 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	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 *	0 *	0 *	0 *	0 *	0 *
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
5000	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 ( 652 )	2-AA ( 1315 )	NaN <sub>3</sub> ( 490 )	2-AA ( 348 )	AF-2 ( 1324 )	2-AA ( 1100 )	AF-2 ( 562 )	2-AA ( 465 )	9-AA ( 773 )	2-AA ( 248 )

Mutagenicity in Bacterial Test ; Negative

\* Growth inhibition was observed.

IARC Evaluation ; not yet cited

Experimental Data-2

(B9705-2/2)

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+
	( 113 )	( 127 )	( 8 )	( 11 )	( 45 )	( 73 )	( 16 )	( 23 )	( 8 )	( 14 )
4 .88	109	127	6	9	45	63	11	30	5	14
	127	145	8	10	59	81	18	21	5	10
9 .77	124	141	10	18	47	86	14	23	13	15
	117	171	5	6	51	79	13	26	8	13
19 .5	143	187	6	10	47	71	23	28	7	13
	131	176	6	20	46	67	17	31	11	13
39 .1	122	197	8	16	46	79	14	34	6	3
	121	179	8	14	48	69	14	33	6	6
78 .1	127	176	13	6	47	68	18	32	16	11
	122	158	9	8	45	64	13	29	10	15
156	116 *	174	3 *	10	41	72	20	37	10	9
	123 *	178	10 *	8	52	54	22	23	8	15
313	0 *	0 *	0 *	0 *	0 *	11 *	0 *	0 *	0 *	0 *
	0 *	0 *	0 *	0 *	0 *	18 *	0 *	0 *	0 *	0 *
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 ( 690 )	2-AA ( 1392 )	NaN <sub>3</sub> ( 486 )	2-AA ( 352 )	AF-2 ( 1600 )	2-AA ( 1219 )	AF-2 ( 631 )	2-AA ( 469 )	9-AA ( 668 )	2-AA ( 243 )