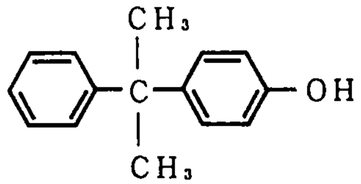
4-(2-Phenylisopropyl)phenol (4-(2-フェニルイソプロピル)フェノール)

Chemical Name: 4-(2-Phenylisopropyl)phenol
Synonym p-Cumylphenol

Molecular weight: 212.29
Melting point: 71~73℃
Boiling point: 189~191℃ (10mmHg)

Chemical Structure



CAS No : 599-64-4
MITI No: (4)-122
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot.No.: WAN9248
Purity:
Vehicle: DMSO

Mutagenicity in Bacterial Test: Negative

IARC Evaluation: not yet cited

Experimental Data

Number of Revertants/plate

Con. μg/plate	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(96)	(93)	(19)	(12)	(49)	(54)	(16)	(24)	(6)	(11)	(14)	(23)
	83	89	14	10	52	55	12	22	6	10	18	19
	83	94	19	14	44	48	13	23	4	9	11	24
1	(83)	(92)	(17)	(12)	(48)	(52)	(13)	(23)	(5)	(10)	(15)	(22)
	93	96	15	11	50	50	16	30	5	10	16	23
	98	100	20	13	42	45	14	28	5	11	17	23
2	(96)	(98)	(18)	(12)	(46)	(48)	(15)	(29)	(5)	(11)	(17)	(23)
	88	85	20	14	50	39	11	29	3	12	16	27
	85	85	16	10	52	60	15	24	4	8	20	19
5	(87)	(85)	(18)	(12)	(51)	(50)	(13)	(27)	(4)	(10)	(18)	(23)
	102	106	16	11	57	44	11	19	4	8	11	26
	84	95	18	12	33	57	18	23	6	11	10	16
10	(93)	(101)	(17)	(12)	(45)	(51)	(15)	(21)	(5)	(10)	(11)	(21)
	108	85	14	10	49	42	13	25	4	16	13	21
	89	86	9	12	38	50	19	20	6	9	11	20
20	(99)	(86)	(12)	(11)	(44)	(46)	(16)	(23)	(5)	(13)	(12)	(21)
	59*	56*	3*	16	39	56	11	17	5*	9	9*	19
	50*	62*	2*	18	46	63	9	26	3*	12	3*	20
50	(55*)	(59*)	(3*)	(17)	(43)	(60)	(10)	(22)	(4*)	(11)	(6*)	(20)
	0*	0*	0*	0*	23*	23*	4*	8*	0*	0*	0*	0*
	0*	0*	0*	0*	21*	28*	3*	24*	0*	0*	0*	0*
100	(0*)	(0*)	(0*)	(0*)	(22*)	(26*)	(4*)	(16*)	(0*)	(0*)	(0*)	(0*)
200	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement	−	−	−	−	−	−	−	−	−	−	−	−
Specific Mutagenicity Positive Control	AF2 (438)	2AA 0.5 (441)	NaN_3 (288)	2AA (347)	AF2 (455)	2AA (614)	AF2 (308)	2AA (341)	9AA (1089)	2AA (258)	2NF (474)	2AA (320)