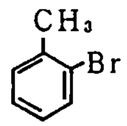
o-Bromotoluene (o-ブロモトルエン)

Chemical Name: o-Bromotoluene
Synonym: 1-Bromo-2-methylbenzene
Benzene, 1-bromo-2-methyl-

Molecular weight: 171.04
Melting point: - 27 ℃
Boiling point: 181.7℃, 58 - 60 ℃ (10mmHg)
Flashing point: 78 ℃
Chemical Structure



CAS No : 95-46-5
MITI No:(3)-88
Source of Substance:Tokyo Kasei Kogyo Co Ltd
Lot.No. : AX01
Purity : 98 %
Vehicle : DMSO

Mutagenicity
in Bacterial Test : Negative

IARC Evaluation :noy yet cited

Experimental Data

Number of Revertants/plate

Con. μg/plate	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(119)	(124)	(11)	(15)	(25)	(25)	(18)	(24)	(8)	(11)
	127	131	17	13	17	31	17	26	8	6
	124	124	14	14	21	26	15	18	11	7
0.0763	(126)	(128)	(16)	(14)	(19)	(29)	(16)	(22)	(10)	(7)
	136	121	13	11	17	26	13	24	8	10
	134	109	15	12	20	23	10	32	3	8
0.305	(135)	(115)	(14)	(12)	(19)	(25)	(12)	(28)	(6)	(9)
	141	124	16	8	16	36	24	16	7	8
	131	137	16	11	24	36	11	21	11	7
1.22	(136)	(131)	(16)	(10)	(20)	(36)	(18)	(19)	(9)	(8)
	120	109	13	10	23	24	25	22	6	6
	126	124	13	14	24	18	20	22	5	9
4.88	(123)	(117)	(13)	(12)	(24)	(21)	(23)	(22)	(6)	(8)
	117	122	11	17	20	29	20	36	10	17
	142	136	14	17	20	21	16	30	8	11
19.5	(130)	(129)	(13)	(17)	(20)	(25)	(18)	(33)	(9)	(14)
	134	134	8	17	18	22	13	32	7	5
	151	144	8	22	23	28	14	17	9	6
78.1	(143)	(139)	(8)	(20)	(21)	(25)	(14)	(25)	(8)	(6)
	0*	0*	0*	0*	14*	18*	0*	0*	0*	0*
	0*	0*	0*	0*	18*	25*	0*	0*	0*	0*
313	(0*)	(0*)	(0*)	(0*)	(16*)	(22*)	(0*)	(0*)	(0*)	(0*)
1250	(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	AF2	2AA	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	(774)	(1307)	(332)	(291)	(245)	(947)	(511)	(355)	(313)	(203)

Con. μg/plate	Experimental Data: Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(107)	(108)	(15)	(13)	(25)	(36)	(14)	(21)	(9)	(10)
	96	120	7	8	18	31	16	17	5	10
	112	128	8	16	28	38	8	21	9	11
4.88	(104)	(124)	(8)	(12)	(23)	(35)	(12)	(19)	(7)	(11)
	93	106	9	16	30	30	9	22	15	9
	122	102	8	17	29	37	11	17	5	11
9.77	(108)	(104)	(9)	(17)	(30)	(34)	(10)	(20)	(10)	(10)
	104	114	11	17	25	33	7	29	9	20
	107	108	15	11	38	45	9	22	6	10
19.5	(106)	(111)	(13)	(14)	(32)	(39)	(8)	(26)	(8)	(15)
	109	96	8	5	32	40	8	22	8	10
	107	101	13	15	41	41	11	33	6	11
39.1	(108)	(99)	(11)	(10)	(37)	(41)	(10)	(28)	(7)	(11)
	114	102	6*	20	37	38	10*	17	13*	17
	113	120	11*	14	32	39	15*	23	9*	20
78.1	(114)	(111)	(9*)	(17)	(35)	(39)	(13*)	(20)	(11*)	(19)
	115*	96*	2*	9*	24*	30	6*	26*	0*	7*
	70*	102*	0*	3*	33*	18	8*	16*	0*	6*
156	(93*)	(99*)	(1*)	(6*)	(29*)	(24)	(7*)	(21*)	(0*)	(7*)
	83*	55*	0*	0*	17*	8*	0*	14*	0*	0*
	0*	83*	0*	0*	20*	18*	0*	0*	0*	0*
313	(42*)	(69*)	(0*)	(0*)	(19*)	(13*)	(0*)	(7*)	(0*)	(0*)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF2	2AA	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	(770)	(1328)	(367)	(330)	(256)	(774)	(479)	(347)	(316)	(265)

Experimental Data						
Con. μg/plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(263)	(335)	(282)	(351)	(173)	(253)
	262	309	293	367	164	242
	301	306	299	382	141	235
0.0763	(282)	(308)	(296)	(375)	(153)	(239)
	214	329	291	378	187	242
	236	330	269	370	149	235
0.305	(225)	(330)	(280)	(374)	(168)	(239)
	271	307	338	350	164	223
	268	309	288	322	158	213
1.22	(270)	(308)	(313)	(336)	(161)	(218)
	271	301	284	360	159	274
	266	334	280	350	144	225
4.88	(269)	(318)	(282)	(355)	(152)	(250)
	269	322	297	346	170	256
	288	320	307	352	150	218
19.5	(279)	(321)	(302)	(349)	(160)	(237)
	238	275	314	331	157	232
	256	324	294	340	129	234
78.1	(247)	(300)	(304)	(336)	(143)	(233)
	149*	176*	219*	228*	90*	123*
	152*	177*	247*	211*	82*	112*
313	(151*)	(177*)	(233*)	(220*)	(86*)	(118*)
1250	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
5000	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement	—	—	—	—	—	—
Specific Mutagenicity						
Positive Control	BLM	2AA	PA	2AA	AF2	2AA
	(840)	(2136)	(1688)	(932)	(2922)	(1162)

Experimental Data						
Con. μg/plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(192)	(210)	(263)	(310)	(156)	(223)
	150	233	225	334	159	256
	120	222	234	276	170	235
4.88	(135)	(228)	(230)	(305)	(165)	(246)
	135	213	242	290	156	225
	143	228	247	262	157	227
9.77	(139)	(221)	(245)	(276)	(157)	(226)
	163	216	260	265	160	238
	146	214	263	279	165	226
19.5	(155)	(215)	(262)	(272)	(163)	(232)
	150	202	233	254	171	242
	207	221	242	291	187	222
39.1	(179)	(212)	(238)	(273)	(179)	(232)
	200	250	275	269	131	215
	183	221	266	261	136	239
78.1	(192)	(236)	(271)	(265)	(134)	(227)
	89*	185*	222*	263*	74*	155*
	66*	187*	190*	254*	93*	155*
156	(78*)	(186*)	(206*)	(259*)	(84*)	(155*)
	55*	139*	193*	212*	75*	102*
	109*	148*	171*	232*	78*	98*
313	(82*)	(144*)	(182*)	(222*)	(77*)	(100*)
Judgement	—	—	—	—	—	—
Specific Mutagenicity Positive Control	BLM	2AA	PA	2AA	AF2	2AA
	(521)	(804)	(959)	(802)	(1766)	(1063)