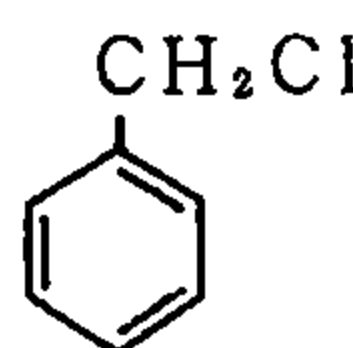


Benzyl chloride (塩化ベンジル)

Experimental Data

Chemical Name: Benzyl chloride
 Synonym (Chloromethyl)benzene
 alpha-Chlorotoluene
 Benzene, (chloromethyl)-
 Molecular weight: 126.50
 Melting point: - 43°C
 Boiling point: 177 - 181°C
 Flasing point: 73 °C
 Chemical Structure



CH₂Cl

CAS No : 100-44-7
 MITI No: (3)-39, (3)-102
 Source of Substance: Tokyo Kasei Kogyo Co Ltd
 Lot. No. : FGA01
 Purity : 99 %
 Vehicle : DMSO

Con. μg/ plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(138)	(152)	(12)	(11)	(32)	(39)	(13)	(20)	(15)	(18)
	167	148	13	8	28	49	23	22	13	26
0.0763	(165)	(131)	(11)	(12)	(29)	(51)	(21)	(25)	(15)	(26)
	160	164	14	15	39	40	14	24	15	22
	156	163	8	7	29	39	13	23	20	17
0.305	(158)	(164)	(11)	(11)	(34)	(40)	(14)	(24)	(18)	(20)
	156	152	15	10	30	36	9	22	16	15
	184	156	11	10	34	34	10	28	17	22
1.22	(170)	(154)	(13)	(10)	(32)	(35)	(10)	(25)	(17)	(19)
	164	160	10	18	36	32	20	25	18	18
	150	138	8	15	31	28	16	17	20	18
4.88	(157)	(149)	(9)	(17)	(34)	(30)	(18)	(21)	(19)	(18)
	188	145	9	15	40	49	11	30	14	22
	166	149	20	15	36	34	21	23	20	13
19.5	(177)	(147)	(15)	(15)	(38)	(42)	(16)	(27)	(17)	(18)
	246	214	10	14	45	53	22	18	16	18
	243	230	11	10	39	37	21	23	14	16
78.1	(245)	(222)	(11)	(12)	(42)	(45)	(22)	(21)	(15)	(17)
	164*	280*	8*	10*	38*	77*	9*	21*	7*	16*
	184*	253*	9*	7*	48*	77*	11*	24*	6*	10*
313	(174*)	(267*)	(9*)	(9*)	(43*)	(77*)	(10*)	(23*)	(7*)	(13*)
	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*)
5000	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement	— — — — — — — — — —									
Specific Mutagenicity	— — — — — — — — — —									
Positive Control	AF2	2AA	NaN3	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	(785)	(1214)	(238)	(245)	(241)	(718)	(400)	(357)	(411)	(183)

Experimental Data

Con. μ g/ plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(121)	(126)	(11)	(13)	(20)	(23)	(15)	(22)	(10)	(10)
	142	144	18	13	22	20	13	11	8	5
	158	105	8	13	26	20	16	13	6	6
4.88	(150)	(125)	(13)	(13)	(24)	(20)	(15)	(12)	(7)	(6)
	130	158	15	8	24	15	18	25	5	9
	141	116	13	13	32	28	21	23	7	9
9.77	(136)	(137)	(14)	(11)	(28)	(22)	(20)	(24)	(6)	(9)
	164	160	11	14	20	24	20	23	8	9
	163	137	15	7	18	24	15	22	16	9
19.5	(164)	(149)	(13)	(11)	(19)	(24)	(18)	(23)	(12)	(9)
	185	145	15	9	26	25	23	22	5	8
	186	146	11	9	25	28	10	18	5	9
39.1	(186)	(146)	(13)	(9)	(26)	(27)	(17)	(20)	(5)	(9)
	233	180	15	11	26	25	25	24	8	5
	226	192	11	11	28	36	25	25	6	16
78.1	(230)	(186)	(13)	(11)	(27)	(31)	(25)	(25)	(7)	(11)
	267	263	10	9	29	48	22	21	9	6
	255	282	9	15	43	51	23	28	11	7
156	(261)	(273)	(10)	(12)	(36)	(50)	(23)	(25)	(10)	(7)
	113*	187*	11*	6*	41*	69*	8*	17*	6*	7*
	94*	150*	9*	6*	39*	49*	8*	29*	7*	9*
313	(104*)	(169*)	(10*)	(6*)	(40*)	(59*)	(8*)	(23*)	(7*)	(8*)
Judgement	+	+	-	-	+	+	-	-	-	-
Specific Mutagenicity	897	942			63.9	173				
Positive	AF2	2AA	NaN3	2AA	AF2	2AA	AF2	2AA	9AA	2AA
Control	(964)	(1211)	(298)	(266)	(260)	(792)	(374)	(348)	(413)	(234)