n-Octylbromide (n-オクチルブロミド)

Chemical Name: n-Octylbromide
Synonym 1-Bromooctane
Octane, 1-bromo-
Molecular weight: 193.13
Melting point: -55℃
Boiling point: 201.5℃
Flashing point: 78℃
Chemical Structure

$CH_3(CH_2)_7Br$

CAS NO : 111-83-1
MITI NO: (2)-67
Source of Substance:Tokyo Kasei Kogyo Co.Ltd
Lot.No.: FAX01
Purity: ≧ 98 %
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	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(184)	(177)	(9)	(11)	(28)	(36)	(18)	(25)	(6)	(12)
	198		8				20		11	
	149		8				17		6	
0.0610	(174)		(8)				(19)		(9)	
	173		8		23		20		11	
	188		10		31		11		10	
0.122	(181)		(9)		(27)		(16)		(11)	
	170		6		37		15		8	
	155		11		32		22		6	
0.244	(163)		(9)		(35)		(19)		(7)	
	169	143	9	11	30		16		7	
	151	181	11	6	32		13		8	
0.488	(160)	(162)	(10)	(9)	(31)		(15)		(8)	
	153	159	10	9	34		14	21	8	9
	160	149	13	11	29		20	21	6	10
0.977	(157)	(154)	(12)	(10)	(32)		(17)	(21)	(7)	(10)
	119	177	8	7	21	34	22	18	7	14
	109	192	10	15	25	34	13	26	11	13
1.95	(114)	(185)	(9)	(11)	(23)	(34)	(18)	(22)	(9)	(14)
	67*	171	2*	10	25	39	13	13	3*	10
	87*	192	5*	16	32	32	10	31	5*	5
3.91	(77*)	(182)	(4*)	(13)	(29)	(36)	(12)	(22)	(4*)	(8)
	68*	146	6*	8	28*	32	10*	26	3*	15
	51*	163	6*	13	21*	38	15*	26	3*	11
7.81	(60*)	(155)	(6*)	(11)	(25*)	(35)	(13*)	(26)	(3*)	(13)
	48*	177	6*	15	31*	37	10*	26	0*	13
	52*	151	6*	13	23*	39	10*	28	0*	13
15.6	(50*)	(164)	(6*)	(14)	(27*)	(38)	(10*)	(27)	(0*)	(13)
		150		16	21*	34		24		10
		143		7	23*	37		20		15
31.3		(162)		(12)	(22*)	(36)		(22)		(13)

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Experimental Data

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+
		74*		11*		37		22		15
		74*		15*		41		21		9
62.5		(74*)		(13*)		(39)		(22)		(12)
		63*		0*		22		13*		8*
		59*		0*		40		14*		10*
125		(61*)		(13*)		(31)		(14*)		(9*)
						40*		0*		13*
						23*		0*		10*
250						(32*)		(0)		(12*)
						37*				
						31*				
500						(34*)				
Judgement	−	−	−	−	−	−	−	−	−	−
Specific Mutagenicity										
Positive Control	AF2	2AA	NaN_3	2AA	AF2	2AA 20	AF2	2AA	9AA	2AA
	(593)	(832)	(298)	(167)	(169)	(1500)	(418)	(413)	(271)	(128)

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	(159)	(146)	(9)	(9)	(28)	(37)	(38)	(33)	(7)	(15)
	184		10						7	
	169		10						6	
0.0610	(177)		(10)						(7)	
	193		11		28		54		3	
	190		9		25		32		5	
0.122	(192)		(10)		(27)		(43)		(4)	
	150		8		39		25		7	
	152		8		28		28		9	
0.244	(151)		(8)		(34)		(27)		(8)	
	152		9		33		30		7	
	172		3		34		30		8	
0.488	(162)		(6)		(34)		(30)		(8)	
	155	139	13	13	28		43		8	
	174	185	9	13	23		32		7	
0.977	(165)	(162)	(11)	(13)	(26)		(38)		(8)	
	170	148	9	10	29		25	36	8	16
	139	145	8	5	38		30	32	8	10
1.95	(155)	(147)	(9)	(8)	(34)		(28)	(34)	(8)	(13)
	90*	139	5*	13	32	29	32	34	5*	15
	98*	163	2*	11	26	34	25	32	8*	11
3.91	(94*)	(151)	(4*)	(12)	(29)	(32)	(29)	(33)	(7*)	(13)
		133		9	30*	49	13*	39		7
		167		13	30*	36	21*	37		16
7.81		(150)		(11)	(30*)	(43)	(17*)	(38)		(12)
		144		13		53		36		14
		180		14		45		39		16
15.6		(162)		(14)		(49)		(38)		(15)

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Experimental Data

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+
		129		11		41		33		13
		128		14		49		29		13
31.3		(129)		(13)		(45)		(31)		(13)
		104*		10*		44		31		16
		98*		8*		34		26		15
62.5		(101*)		(9*)		(39)		(29)		(16)
						44		31*		13*
						44		39*		11*
125						(44)		(35*)		(12*)
						34*				
						44				
250						(39*)				
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF2 (509)	2AA (587)	NaN_3 (232)	2AA (119)	AF2 (194)	2AA 20 (1382)	AF2 (367)	2AA (374)	9AA (267)	2AA (103)

Con. μg/plate	Experimental Data: Number of Revertants/plate: Base-substitution					
	TA102		TA104		WP2uvrA/pKM101	
	S9-	S9+	S9-	S9+	S9-	S9+
Acetone	(250)	(317)	(282)	(403)	(108)	(141)
	273		287		106	
	238		269		99	
0.0305	(256)		(278)		(103)	
	252		303		117	
	263		291		93	
0.0610	(258)		(297)		(105)	
	250		318		112	
	250		290		112	
0.122	(250)		(304)		(112)	
	279	322	300	365	100	
	258	344	323	366	93	
0.244	(269)	(333)	(312)	(366)	(97)	
	279	318	304	419	113	
	243	306	294	338	106	
0.488	(261)	(312)	(299)	(379)	(110)	
	239	313	298	412	113	135
	234	285	303	372	108	149
0.977	(237)	(299)	(301)	(392)	(111)	(142)
	262	343	297	374	107	151
	256	320	290	421	108	159
1.95	(259)	(332)	(294)	(398)	(108)	(155)
	247	326	288	401	117	157
	232	300	290	411	104	152
3.91	(240)	(313)	(289)	(406)	(111)	(155)
	180*	328	218*	414	83*	127
	160*	334	228*	390	89*	130
7.81	(170*)	(331)	(223*)	(402)	(86*)	(129)
	83*	331	166*	425	94*	159
	112*	312	170*	422	75*	145
15.6	(98*)	(322)	(168*)	(424)	(85*)	(152)

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Experimental Data						
Con. μg/plate	Number of Revertants/plate					
	Base-substitution					
	TA102		TA104		WP2uvra/pkM101	
	S9-	S9+	S9-	S9+	S9-	S9+
		312		436		128
		316		391		141
31.3		(314)		(414)		(135)
		314		353		143
		311		320		153
62.5		(313)		(337)		(148)
		226*		152*		139
		202*		137*		130
125		(214*)		(145*)		(135)
						123
						156
250						(140)
						119*
						108*
500						(114*)
Judgement	—	—	—	—	—	—
Specific Mutagenicity						
Positive Control	BLM (627)	2AA (1206)	PA (2019)	2AA (1419)	AF2 (680)	2AA (643)