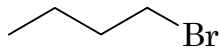


1-Bromobutane (1-ブ'ロモブ'タン)

Chemical Name	: 1-Bromobutane
Synonym	: Butyl bromide n-Butyl bromide ブ'チルブ'ロミド
Molecular Weight	: 137.02
Melting Point	: 112.3°C[CHCD]
Boiling Point	: 101.3°C[Merck]
Flashing Point	: 18 °C[CHCD]
Molecular Formular:	C <sub>4</sub> H <sub>9</sub> Br
Chemical Structure:	
CAS No.	: 109-65-9
MITI No.	: (2)-74
ML No.	: -
Specified Chemical Substances:	-
Source of Substance:	Wako Pure Chemical Industries Ltd.
Lot No.	: ASK5040
Purity	: 99.8%
Vehicle	: Air
Exposure Condition	: 27°C, 24hr
Culture Condition	: 27°C, 24hr

Conc. %	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
Air	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		( 95 )	( 99 )	( 11 )	( 10 )	( 71 )	( 82 )	( 12 )	( 16 )	( 9 )
0.01	97	94	10	7	64	83	11	22	9	8
	( 84 )	( 81 )	( 15 )	( 7 )	( 75 )	( 74 )	( 14 )	( 13 )	( 10 )	( 6 )
0.05	96	108	14	31	61	97	17	23	3	11
	( 96 )	( 103 )	( 17 )	( 31 )	( 66 )	( 97 )	( 15 )	( 17 )	( 4 )	( 9 )
0.1	127	184	36	49	107	126	17	15	8	8
	( 124 )	( 154 )	( 33 )	( 45 )	( 104 )	( 127 )	( 14 )	( 23 )	( 6 )	( 7 )
0.5	227	259	212	287	129	179	16	21	7	7
	( 233 )	( 258 )	( 201 )	( 291 )	( 149 )	( 184 )	( 19 )	( 21 )	( 7 )	( 7 )
1	436	359	457	408	214	221	21	24	8	6
	( 433 )	( 350 )	( 491 )	( 421 )	( 215 )	( 238 )	( 16 )	( 22 )	( 5 )	( 6 )
5	451 *	446 *	807 *	581 *	124 *	71 *	15 *	8 *	1 *	2 *
	( 438 )*	( 470 )*	( 796 )*	( 574 )*	( 154 )*	( 75 )*	( 13 )*	( 13 )*	( 2 )*	( 2 )*
10	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	( 0 )*	( 0 )*	( 0 )*	( 0 )*	( 0 )*	( 0 )*	( 0 )*	( 0 )*	( 0 )*	( 0 )*
Judgement	+	+	+	+	+	+	-	-	-	-
Specific Mutagenicity	0.5	0.5	0.1	0.05	0.5	0.5				
Positive Control	AF-2 ( 397 )	2-AA ( 1021 )	NaN <sub>3</sub> ( 342 )	2-AA ( 223 )	AF-2 ( 513 )	2-AA ( 750 )	AF-2 ( 495 )	2-AA ( 348 )	9-AA ( 664 )	2-AA ( 164 )

Mutagenicity in Bacterial Test: Positive

IARC Evaluation : Not yet cited

\* Growth inhibition was observed.

Experimental Data-2

(B0408-2/2)

Conc. %	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
Air	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	( 114 )	( 97 )	( 8 )	( 9 )	( 63 )	( 82 )	( 20 )	( 23 )	( 8 )	( 15 )
0.01	( )	( )	13 11 ( 12 )	13 14 ( 14 )	( )	( )	( )	( )	( )	( )
0.02	116 108 ( 112 )	134 111 ( 123 )	16 7 ( 12 )	10 15 ( 13 )	82 67 ( 75 )	82 94 ( 88 )	( )	( )	( )	( )
0.05	119 130 ( 125 )	137 113 ( 125 )	18 18 ( 18 )	26 24 ( 25 )	100 70 ( 85 )	104 100 ( 102 )	( )	( )	( )	( )
0.1	123 138 ( 131 )	155 159 ( 157 )	30 36 ( 33 )	51 53 ( 52 )	91 107 ( 99 )	115 136 ( 126 )	25 22 ( 24 )	25 25 ( 25 )	6 8 ( 7 )	14 13 ( 14 )
0.2	156 137 ( 147 )	151 160 ( 156 )	76 52 ( 64 )	106 112 ( 109 )	94 101 ( 98 )	120 130 ( 125 )	28 24 ( 26 )	28 29 ( 29 )	6 8 ( 7 )	16 8 ( 12 )
0.5	265 248 ( 257 )	279 260 ( 270 )	259 214 ( 237 )	320 329 ( 325 )	185 170 ( 178 )	202 198 ( 200 )	22 24 ( 23 )	29 26 ( 28 )	6 6 ( 6 )	13 10 ( 12 )
1	390 446 ( 418 )	456 473 ( 465 )	( )	( )	258 273 ( 266 )	266 247 ( 257 )	18 17 ( 18 )	38 24 ( 31 )	3 7 ( 5 )	15 5 ( 10 )
2	( )	( )	( )	( )	( )	( )	14 18 ( 16 )	14 18 ( 16 )	6 3 ( 5 )	2 6 ( 4 )
5	( )	( )	( )	( )	( )	( )	13 * 7 * ( 10 )*	6 * 18 * ( 12 )*	5 * 1 * ( 3 )*	1 * 2 * ( 2 )*
Judgement	+	+	+	+	+	+	-	-	-	-
Specific Mutagenicity	0.5	0.5	0.05	0.05	0.5	0.5				
Positive Control	AF-2 ( 468 )	2-AA ( 923 )	NaN <sub>3</sub> ( 431 )	2-AA ( 278 )	AF-2 ( 698 )	2-AA ( 800 )	AF-2 ( 524 )	2-AA ( 357 )	9-AA ( 816 )	2-AA ( 220 )

\* Growth inhibition was observed.