

1-Bromo-3-chloropropane (1-ブロモ-3-クロロプロパン)

Chemical Name: 1-Bromo-3-chloropropane  
 Synonym: Trimethylene chlorobromide  
 Molecular weight: 157.44  
 Melting point:  
 Boiling point: 142 ~ 145°C  
 Chemical Structure  
 $CH_2ClCH_2CH_2Br$   
 CAS No: 109-70-6  
 MITI No: (9)-370  
 ML No: 2-(13)-64  
 Source of Substance: Wako Pure Chem. Ind., Ltd.  
 Lot. No.: STL4069  
 Purity:  
 Vehicle: DMSO

Mutagenicity  
 in Bacterial Test: Positive

IARC Evaluation: not yet cited

Judgement  
 Specific Mutagenicity  
 Positive  
 Control

Experimental Data

Con. μg/ plate	Number of Revertants/plate											
	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(99)	(103)	(21)	(12)	(55)	(63)	(16)	(21)	(5)	(7)	(15)	(25)
	91	96	23	16	68	60	15	21	4	10	20	28
	94	99	20	10	58	54	13	20	5	9	14	26
10	(93)	(96)	(22)	(13)	(63)	(57)	(14)	(21)	(5)	(10)	(17)	(27)
	99	104	22	14	61	73	17	22	3	7	13	22
	91	116	13	13	64	78	10	26	5	5	14	21
20	(95)	(110)	(18)	(14)	(63)	(76)	(14)	(24)	(4)	(6)	(14)	(22)
	92	100	15	17	60	71	12	20	5	11	17	19
	97	112	22	11	54	67	15	19	5	7	17	28
50	(95)	(106)	(19)	(14)	(57)	(69)	(14)	(20)	(5)	(9)	(17)	(24)
	104	112	19	14	50	70	15	24	4	12	14	26
	100	114	14	23	63	67	15	23	7	9	17	24
100	(102)	(113)	(17)	(19)	(57)	(69)	(15)	(24)	(6)	(11)	(16)	(25)
	107	111	24	30	63	72	19	25	4	8	15	22
	97	119	15	33	63	72	15	23	2	7	15	29
200	(99)	(115)	(20)	(32)	(63)	(72)	(17)	(24)	(3)	(8)	(15)	(26)
	103	122	17	41	52	68	12	22	2	7	13	30
	97	113	19	44	60	66	15	23	4	8	12	26
500	(100)	(118)	(18)	(43)	(56)	(67)	(14)	(23)	(3)	(8)	(13)	(28)
	92	106	13	45	59	67	21	25	1	3	16	26
	95	96	18	54	60	75	10	26	6	8	18	24
1000	(94)	(101)	(16)	(50)	(60)	(71)	(16)	(26)	(4)	(6)	(17)	(25)
	0*	89	24	12*	50	51	0*	0*	0*	5*	12	21
	0*	112	0*	18*	28	60	0*	0*	0*	3*	14	22
2000	(0*)	(101)	(12*)	(15*)	(39)	(56)	(0*)	(0*)	(0*)	(4*)	(13)	(22)
	-	-	-	+	-	-	-	-	-	-	-	-
				100								
	AF2	2AA 0.5	NaN <sub>3</sub>	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(451)	(1010)	(223)	(246)	(332)	(823)	(345)	(853)	(804)	(259)	(236)	(1043)