

[ヨウ化メチル]

Chemical Name; Methyl iodide

Synonym ; Iodomethane

ヨウ化メチル

Molecular Weight ; 141.94

Melting Point ; - 64 °C [Aldrich]

- 66.5 °C [Merck]

Boiling Point ; 42.5 °C [CHCD, Merck]

41 - 43 °C [Aldrich]

Flashing Point ; - °C

Molecular Formula; CH₃I

Chemical Structure



CAS No. ; 74-88-4

MITI No. ; (2)-42

ML No. ; -

Specified Chemical Substances; -

Source of Substance; Tokyo Kasei Kogyo Co., Ltd.

Lot No. ; GD01

Purity ; 99.5 %

Vehicle ; Filtrated Air

Exposure Condition; 37 °C , 24 Hr

Culture Condition ; 37 °C , 24 Hr

Conc. %	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
Air	(122)	(130)	(16)	(20)	(36)	(45)	(17)	(26)	(9)	(12)
	134	121	17	11	32	33	8	13	8	8
	129	142	20	17	36	44	18	24	10	15
0.005	(132)	(132)	(19)	(14)	(34)	(39)	(13)	(19)	(9)	(12)
	107	152	25	18	39	57	10	21	9	10
	100	136	25	25	37	46	15	18	7	9
0.01	(104)	(144)	(25)	(22)	(38)	(52)	(13)	(20)	(8)	(10)
	169	279	17	17	29	41	16	24	10	14
	173	242	15	20	37	61	22	24	6	15
0.05	(171)	(261)	(16)	(19)	(33)	(51)	(19)	(24)	(8)	(15)
	408	405	17	16	46	69	16	20	9	10
	408	394	11	17	62	64	14	28	5	10
0.1	(408)	(400)	(14)	(17)	(54)	(67)	(15)	(24)	(7)	(10)
	230	303	11*	28	0*	44*	5*	17*	3*	2*
	220	336	13*	20	0*	36*	11*	18*	3*	7*
0.5	(225)	(320)	(12*)	(24)	(0*)	(40*)	(8*)	(18*)	(3*)	(5*)
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
1	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
5	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement	+	+	-	-	-	-	-	-	-	-
Positive Minimum Concentration	0.1%	0.05%								
Positive Control	AF-2 (752)	2-AA (1401)	NaN ₃ (416)	2-AA (348)	AF-2 (207)	2-AA (1135)	AF-2 (534)	2-AA (375)	9-AA (607)	2-AA (343)

Mutagenicity in Bacterial Test ; Positive

IARC Evaluation ; not yet cited

Conc. %	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
Air	(114)	(125)	(9)	(11)	(31)	(29)	(21)	(26)	(8)	(11)
	142	129	8	16	28	26	23	25	8	7
0.005	(133)	(130)	(8)	(15)	(25)	(28)	(22)	(23)	(7)	(8)
	141	142	9	9	20	32	34	24	6	11
0.01	(146)	(137)	(10)	(9)	(25)	(33)	(24)	(27)	(6)	(9)
	166	190	20	11	20	37	18	32	8	18
0.02	(166)	(183)	(20)	(8)	(22)	(42)	(17)	(27)	(7)	(16)
	306	262	10	14	34	34	21	30	5	3
0.05	(294)	(277)	(9)	(11)	(34)	(34)	(16)	(23)	(7)	(2)
	232	336	6	6	30	44	20	8	2	3
0.1	(239)	(357)	(6)	(7)	(27)	(52)	(15)	(12)	(2)	(3)
	252	338	7	8	36	49	9	18	2	5
0.2	(347)	(336)	(6)	(9)	(37)	(48)	(11)	(16)	(4)	(6)
	160	187	7*	9	0*	0*	7*	10*	1*	3*
0.5	(167)	(193)	(5*)	(9)	(0*)	(0*)	(5*)	(8*)	(2*)	(4*)
	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
1	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)	(0*)
Judgement	+	+	-	-	-	-	-	-	-	-
Positive Minimum Concentration	0.05%	0.05%								
Positive Control	AF-2 (745)	2-AA (1425)	NaN ₃ (409)	2-AA (366)	AF-2 (201)	2-AA (1239)	AF-2 (552)	2-AA (355)	9-AA (2561)	2-AA (305)