

Chemical Name	: <u>3-Methoxy-1-butanol</u>
Synonym	: <u>3-Methoxybutan-1-ol</u> <u>3-Methoxybutanol</u> <u>3-メトキシブタノール</u>
Molecular Weight	: 104.15
Melting Point	: -
Boiling Point	: 158-159°C [CHCD]
Flashing Point	: 74°C(o.c.)(CHCD)
Molecular Formula	: C ₅ H ₁₂ O ₂
Chemical Structure	 <chem>CH3CH(OCH3)CH2CH2OH</chem>
CAS No.	: 2517-43-3
MITI No.	: (2)-409
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: FGD01
Purity	: >98%
Vehicle	: Distilled H ₂ O

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
H ₂ O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(112)	(144)	(8)	(12)	(36)	(66)	(14)	(30)	(8)
1 .22	120	137	8	14	34	63	14	29	6	9
	(140)	(129)	(7)	(14)	(31)	(58)	(15)	(33)	(6)	(11)
4 .88	162	144	7	11	32	39	11	24	3	11
	(142)	(151)	(7)	(14)	(36)	(49)	(11)	(24)	(4)	(11)
19 .5	152	167	9	11	29	67	18	26	6	11
	(141)	(161)	(7)	(13)	(31)	(63)	(21)	(25)	(6)	(11)
78 .1	178	177	10	13	34	59	24	29	5	9
	(162)	(167)	(8)	(12)	(33)	(61)	(25)	(27)	(6)	(10)
313	135	157	6	6	44	64	21	24	5	13
	(139)	(162)	(6)	(10)	(44)	(74)	(20)	(20)	(6)	(13)
1250	139	150	11	7	32	68	15	30	5	10
	(132)	(146)	(11)	(11)	(36)	(64)	(15)	(32)	(8)	(10)
5000	148	144	13	16	38	63	16	28	3	10
	(140)	(137)	(14)	(12)	(41)	(71)	(16)	(29)	(4)	(8)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (674)	2-AA (1338)	NaN ₃ (490)	2-AA (360)	AF-2 (1538)	2-AA (1229)	AF-2 (512)	2-AA (474)	9-AA (706)	2-AA (208)

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

Experimental Data-2

(B9724-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
H ₂ O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(142)	(161)	(8)	(10)	(43)	(72)	(18)	(31)	(6)	(9)
	138	129	10	11	57	67	25	31	3	11
313	155	144	9	9	51	66	25	38	6	10
	(147)	(137)	(10)	(10)	(54)	(67)	(25)	(35)	(5)	(11)
	167	166	6	10	51	87	21	28	6	6
625	152	159	11	13	40	63	23	31	5	6
	(160)	(163)	(9)	(12)	(46)	(75)	(22)	(30)	(6)	(6)
	137	163	8	9	55	78	21	24	6	9
1250	162	139	7	10	43	78	22	24	3	5
	(150)	(151)	(8)	(10)	(49)	(78)	(22)	(24)	(5)	(7)
	164	164	9	9	43	72	18	30	3	5
2500	156	144	9	14	46	68	20	34	9	11
	(160)	(154)	(9)	(12)	(45)	(70)	(19)	(32)	(6)	(8)
	139	163	7	11	61	67	31	32	5	14
5000	157	187	7	10	48	92	24	28	6	9
	(148)	(175)	(7)	(11)	(55)	(80)	(28)	(30)	(6)	(12)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 (707)	2-AA (1194)	NaN ₃ (416)	2-AA (356)	AF-2 (882)	2-AA (1000)	AF-2 (554)	2-AA (451)	9-AA (691)	2-AA (197)