

Methyl vinyl ether (メチルビニルエーテル)

Experimental Data-1

(B8606-1/1)

Chemical Name	: Methyl vinyl ether
Synonym	: Methoxyethene Vinyl methyl ether トキシエテン
Molecular Weight	: 58.08
Melting Point	: -123°C[Aldrich]
Boiling Point	: 5-6°C[Aldrich]
Flashing Point	: -51°C[CHCD]
Molecular Formula	: C ₃ H ₆ O
Chemical Structure	CH ₃ OCH=CH ₂
CAS No.	: 107-25-5
MITI No.	: (2)-372
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: FAU01
Purity	: >99%
Vehicle	: Air
Exposure Condition	: 37°C, 48hr
Culture Condition	: 37°C, 48hr

Mutagenicity in Bacterial Test : Negative

IARC Evaluation : not yet cited

Conc. %	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
Air	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%
	(133)	(115)	(35)	(20)	(53)	(62)	(17)	(32)	(9)	(18)
0.1					66 63 (65)	53 59 (56)				
0.2	99 118 (109)	106 109 (108)	33 22 (28)	28 28 (28)			14 13 (14)	30 21 (26)	10 4 (7)	21 10 (16)
0.3					60 58 (59)	53 68 (61)				
0.5	125 118 (122)	139 100 (120)	41 32 (37)	20 34 (27)			9 13 (11)	39 29 (34)	4 6 (5)	15 8 (12)
0.8	119 118 (119)	109 133 (121)	27 44 (36)	27 20 (24)			12 19 (16)	22 21 (22)	7 7 (7)	14 18 (16)
0.9					61 56 (59)	51 57 (54)				
1.6	105 105 (105)	138 124 (131)	26 42 (34)	28 20 (24)			12 10 (11)	18 33 (26)	11 5 (8)	7 5 (6)
1.7						66 58 (62)				
1.8					66 69 (68)					
3.7		98 94 (96)		7 16 (12)				13 5 (9)		4 6 (5)
4.0	23 * 31 * (27 *)		10 14 (12)				0 * 3 * (2 *)		2 0 * (1 *)	
4.1						55 61 (58)				
4.3					61 65 (63)					
7.4						57 50 (54)				
7.8					67 61 (64)					
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (331)	2-AA (388)	NaN ₃ (298)	2-AA (697)	AF-2 (354)	2-AA (549)	AF-2 (213)	2-AA (84)	9-AA (783)	2-AA (204)

* Growth inhibition was observed.