

Methyl methacrylate(monomer)(メチルメタクリレート)

Chemical Name:	Methyl methacrylate(monomer)
Synonym	Methyl 2-methyl-2-propenoate 2-propenoic acid, 2-methyl-, methyl ester
Molecular weight:	100.11
Melting point:	-48.2°C
Boiling point:	100.3°C (46°C 160mmHg) (29°C 50mmHg)
Flashing point:	10°C
Chemical Structure	$\begin{array}{c} \text{CH}_3 \\ \\ \text{H}_2\text{C}=\text{C}-\text{COOCH}_3 \end{array}$
CAS No :	80-62-6
MITI No:	(2)-1036
Source of Substance:	Wako Pure Chem. Ind., Ltd.
Lot.No.:	EPK3517
Purity:	
Vehicle:	DMSO

Mutagenicity
in Bacterial Test: Negative

IARC Evaluation: G 3

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	(104)	(102)	(17)	(9)	(39)	(46)	(17)	(30)	(7)	(12)	(22)	(20)
	99	97	15	10	36	44	17	27	6	13	19	17
20	(99)	(100)	(16)	(9)	(34)	(47)	(18)	(29)	(7)	(14)	(23)	(19)
	95	93	16	13	33	44	17	26	5	8	25	24
50	(100)	(96)	(15)	(11)	(37)	(41)	(19)	(28)	(5)	(10)	(29)	(23)
	97	106	15	11	37	43	18	34	8	13	20	15
100	(102)	(101)	(13)	(9)	(41)	(41)	(19)	(34)	(7)	(11)	(20)	(19)
	97	98	21	9	39	41	23	29	6	12	20	25
200	(103)	(104)	(19)	(11)	(40)	(40)	(22)	(30)	(5)	(12)	(21)	(23)
	92	87	20	15	40	44	18	30	9	11	25	27
500	(95)	(99)	(18)	(15)	(42)	(43)	(18)	(29)	(8)	(13)	(29)	(27)
	94	88	21	12	36	41	20	28	5	12	24	23
1000	(95)	(93)	(22)	(11)	(38)	(45)	(18)	(31)	(7)	(10)	(24)	(27)
	90	104	14	11	37	48	11	30	6	11	20	28
2000	(91)	(96)	(15)	(10)	(39)	(42)	(12)	(31)	(8)	(12)	(18)	(27)
	93	103	11	9	38	41	15	26	4	6	17	26
5000	(93)	(96)	(12)	(9)	(38)	(38)	(15)	(25)	(4)	(7)	(20)	(22)
	92	89	13	8	37	35	14	24	4	8	23	18
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	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(502)	(526)	(219)	(176)	(387)	(681)	(214)	(595)	(848)	(100)	(354)	(687)