


Dimethyl terephthalate (ジメチルテレフタレート)

Chemical Name:	Dimethyl terephthalate
Synonym	1,4-Benzenedicarboxylic acid dimethyl ester
Molecular weight:	194.19
Melting point:	140.6°C
Boiling point:	288°C
Chemical Structure	
CAS No:	120-61-6
MITI No:	(3)-1328
Source of Substance:	Wako Pure Chem. Ind., Ltd.
Lot. No.:	EPK3715
Purity:	Garanteed reagent
Vehicle:	DMSO

Mutagenicity
in Bacterial Test: Negative

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	(116)	(102)	(20)	(16)	(43)	(42)	(20)	(31)	(8)	(14)	(18)	(23)
	94	119	14	16	31	35	20	33	5	14	18	29
	123	101	20	20	46	40	20	26	7	17	16	23
20	(109)	(110)	(17)	(18)	(39)	(38)	(20)	(30)	(6)	(16)	(17)	(26)
	96	101	21	23	41	51	15	29	6	16	14	33
	104	120	23	25	51	36	16	31	4	16	17	34
50	(100)	(111)	(22)	(24)	(46)	(44)	(16)	(30)	(5)	(16)	(16)	(34)
	103	99	20	19	33	46	24	31	5	12	20	25
	94	89	17	20	37	39	18	27	7	15	17	34
100	(99)	(94)	(19)	(20)	(35)	(43)	(21)	(29)	(6)	(14)	(19)	(30)
	112	106	21	21	39	49	16	32	6	17	12	28
	94	103	21	16	43	51	20	30	6	14	17	25
200	(103)	(105)	(21)	(19)	(41)	(50)	(18)	(31)	(6)	(16)	(15)	(27)
	96	109	16	24	37	35	16	24	4	12	18	29
	106	100	18	17	45	36	19	24	12	18	32	28
500	(101)	(105)	(17)	(21)	(41)	(36)	(18)	(24)	(8)	(15)	(25)	(29)
	93	103	30	27	32	40	22	25	6	13	28	33
	88	120	21	16	39	48	24	32	4	11	32	23
1000	(91)	(112)	(26)	(22)	(36)	(44)	(23)	(29)	(5)	(12)	(30)	(28)
	103	97	24	23	34	42	23	33	4	12	26	24
	91	85	19	15	40	47	24	35	3	13	30	20
2000	(97)	(91)	(22)	(19)	(37)	(45)	(24)	(34)	(4)	(13)	(28)	(22)
	82	71	12	14	30	32	15	30	2	11	14	24
	74	83	13	21	31	37	14	25	2	11	21	22
5000	(78)	(77)	(13)	(18)	(31)	(35)	(15)	(28)	(2)	(11)	(18)	(23)
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	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(456)	(423)	(262)	(238)	(397)	(678)	(274)	(356)	(768)	(173)	(416)	(388)