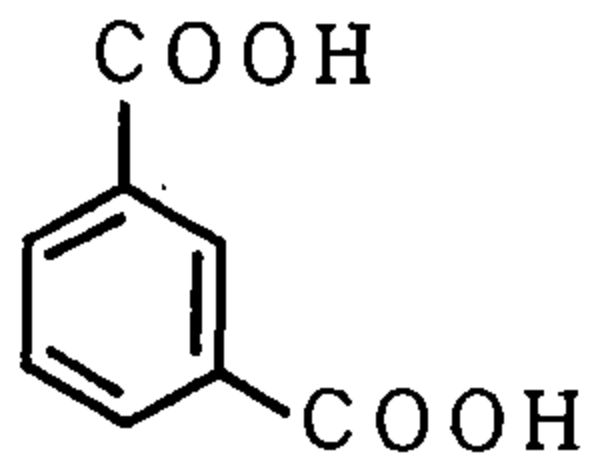


Isophthalic acid (イソフタル酸)

<b>Chemical Name:</b>	Isophthalic acid
<b>Synonym</b>	Benzene-m-dicarboxylic acid 1,3-Benzenedicarboxylic acid
<b>Molecular weight:</b>	166.13
<b>Melting point:</b>	350°C
<b>Boiling point:</b>	°C
<b>Chemical Structure</b>	
<b>CAS No:</b>	121-91-5
<b>MITI No:</b>	(3)-1332
<b>Source of Substance:</b>	Tokyo Kasei Kogyo Co. Ltd
<b>Lot. No.:</b>	AS01
<b>Purity:</b>	extra pure reagent
<b>Vehicle:</b>	DMSO

**Mutagenicity**  
in Bacterial Test: Negative

IARC Evaluation: not yet cited

**Judgement**  
Specific Mutagenicity  
Positive  
Control

Con. μg/ plate	Experimental Data											
	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	(105)	(104)	(14)	(11)	(37)	(40)	(20)	(27)	(10)	(12)	(13)	(13)
	99	93	13	12	29	23	31	23	10	12	13	7
	91	128	9	15	37	36	34	24	14	8	9	12
20	(95)	(111)	(11)	(14)	(33)	(30)	(33)	(24)	(12)	(10)	(11)	(10)
	101	112	14	9	28	26	25	25	13	9	13	11
	99	83	14	15	36	29	30	23	7	17	14	14
50	(100)	(98)	(14)	(12)	(32)	(28)	(28)	(24)	(10)	(13)	(14)	(13)
	95	84	12	9	29	44	31	25	10	10	15	8
	102	119	13	16	29	32	29	33	9	11	14	9
100	(99)	(102)	(13)	(13)	(29)	(38)	(30)	(29)	(10)	(11)	(15)	(9)
	97	107	9	15	36	36	32	37	9	12	10	11
	94	101	15	14	31	34	29	31	8	7	9	9
200	(96)	(104)	(12)	(15)	(34)	(35)	(31)	(34)	(9)	(10)	(10)	(10)
	120	94	18	11	38	33	26	30	12	11	10	11
	105	123	19	10	34	23	26	33	18	9	12	10
500	(113)	(109)	(19)	(11)	(36)	(28)	(26)	(32)	(15)	(10)	(11)	(11)
	103	90	10	9	29	41	31	20	9	9	13	7
	94	101	12	10	33	45	27	29	6	10	7	12
1000	(99)	(96)	(11)	(10)	(31)	(43)	(29)	(25)	(8)	(10)	(10)	(10)
	95	94	12	12	34	36	25	14	9	12	12	13
	106	99	7	9	36	41	31	18	10	11	15	9
2000	(101)	(97)	(10)	(11)	(35)	(39)	(28)	(16)	(10)	(12)	(14)	(11)
	41	86	0*	13	35	36	25	19	0*	7	5	11
	35	88	0*	11	33	30	23	18	0*	6	8	10
5000	(38)	(87)	(0*)	(12)	(34)	(33)	(24)	(19)	(0*)	(7)	(7)	(11)
	-	-	-	-	-	-	-	-	-	-	-	-
	AF2	2AA 0.5	NaN <sub>3</sub>	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(434)	(698)	(175)	(146)	(301)	(421)	(335)	(507)	(1347)	(267)	(428)	(545)