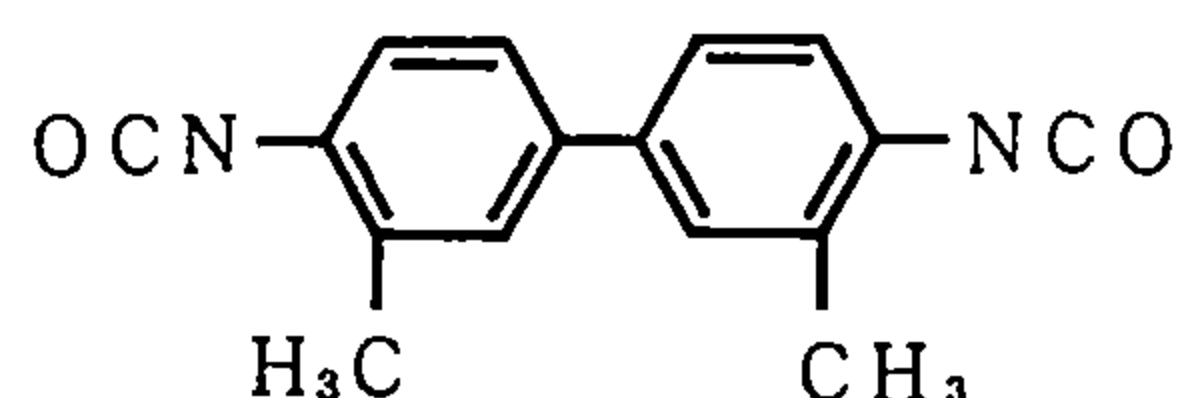


3,3'-Dimethyl-4,4'-biphenylene diisocyanate (3,3'-ジメチル-4,4'-ビフェニレンジイソシアナート)

Experimental Data

Chemical Name: 3,3'-Dimethyl-4,4'- biphenylene diisocyanate Synonym: o-Tolidine diisocyanate 1,1'-Biphenyl, 4,4'- diisocyanato, -3,3'-dimethyl	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	(94)	(98)	(13)	(11)	(51)	(56)	(14)	(29)	(5)	(11)	(16)	(21)	
	89	99	12	11	45	53	13	96	7	7	18	153	
	95	90	19	10	49	49	18	79	4	11	12	166	
10	(92)	(95)	(16)	(11)	(47)	(51)	(16)	(88)	(6)	(9)	(15)	(160)	
	92	116	17	14	54	63	11	93	5	15	19	203	
	80	110	11	15	39	68	10	91	6	15	12	233	
20	(86)	(113)	(14)	(15)	(47)	(66)	(11)	(92)	(6)	(15)	(16)	(218)	
	81	108	21	10	50	50	11	132	4	12	15	274	
	92	110	17	17	50	65	15	105	7	13	18	380	
50	(87)	(109)	(19)	(14)	(50)	(58)	(13)	(119)	(6)	(13)	(17)	(327)	
	92	140	17	12	50	55	16	164	5	12	17	331	
	100	134	10	16	46	61	14	147	6	9	18	296	
100	(96)	(137)	(14)	(14)	(48)	(58)	(15)	(156)	(6)	(11)	(18)	(314)	
	101	130	20	14	38	57	10	177	4	10	11	335	
	84	130	16	8	39	60	13	182	7	10	9	341	
200	(93)	(130)	(18)	(11)	(39)	(59)	(12)	(80)	(6)	(10)	(15)	(338)	
	108	136	14	8	52	62	10	245	4	15	13	488	
	93	140	17	10	46	61	16	202	6	8	11	459	
500	(101)	(138)	(16)	(9)	(49)	(62)	(13)	(224)	(5)	(12)	(12)	(474)	
	84*	125	5*	9*	47	43	10*	188	4	9	9*	419	
	82*	136	8*	10*	54	32	7*	190	6	7	8*	539	
1000	(83*)	(131)	(7*)	(10*)	(51)	(38)	(9*)	(189)	(5)	(7)	(9*)	(479)	
	0*	78*	0*	0*	0*	41	0*	0*	0*	0*	0*	80*	
	0*	80*	0*	0*	0*	43	0*	0*	0*	0*	0*	72*	
2000	(0*)	(79*)	(0*)	(0*)	(0*)	(42)	(0*)	(0*)	(0*)	(0*)	(0*)	(76*)	
Judgement	-	-	-	-	-	-	-	+	-	-	-	+	
Specific Mutagenicity								5900				13900	
Positive	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA	
Control	(410)	(491)	(235)	(201)	(408)	(764)	(224)	(822)	(1064)	(153)	(456)	(718)	



CAS No: 91-97-4
 MITI No: (4)-33
 Source of Substance: Nippon Soda Co., Ltd.
 Lot.No.:
 Purity: >99.9 %
 Vehicle: DMSO

Mutagenicity
 in Bacterial Test: Positive

IARC Evaluation: not yet cited