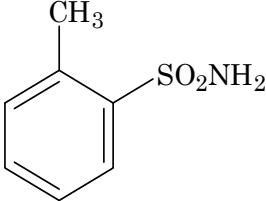


Chemical Name	: <i>o</i> -Toluenesulfonamide
Synonym	: 2-Methylbenzenesulfonamide Toluene-2-sulfonamide 2-メチルベンゼンスルホンアミド
Molecular Weight	: 171.22
Melting Point	: 156-158°C[Aldrich]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C ₇ H ₉ NO ₂ S
Chemical Structure	
CAS No.	: 88-19-7
MITI No.	: (3)-1895
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: DO01
Purity	: >98%
Vehicle	: DMSO

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(115)	(138)	(8)	(12)	(50)	(77)	(20)	(31)	(5)	(10)
1 .22	133 122 (128)	119 133 (126)	15 8 (12)	16 13 (15)	39 74 (57)	90 87 (89)	16 22 (19)	22 32 (27)	3 3 (3)	11 11 (11)
4 .88	113 117 (115)	141 170 (156)	2 8 (5)	14 21 (18)	47 48 (48)	79 66 (73)	16 13 (15)	26 32 (29)	6 6 (6)	9 11 (10)
19 .5	133 144 (139)	137 134 (136)	3 8 (6)	10 13 (12)	60 49 (55)	72 69 (71)	16 8 (12)	25 15 (20)	8 5 (7)	7 9 (8)
78 .1	139 130 (135)	136 153 (145)	8 10 (9)	13 6 (10)	44 57 (51)	72 71 (72)	20 16 (18)	23 38 (31)	5 9 (7)	8 8 (8)
313	129 123 (126)	142 127 (135)	6 6 (6)	10 15 (13)	51 39 (45)	77 83 (80)	14 22 (18)	34 28 (31)	9 5 (7)	8 8 (8)
1250	124 108 (116)	109 123 (116)	6 5 (6)	6 11 (9)	49 44 (47)	67 67 (67)	15 17 (16)	32 31 (32)	7 5 (6)	14 10 (12)
5000	76 89 (83)	92 90 (91)	5 8 (7)	13 13 (13)	53 30 (42)	76 83 (80)	23 20 (22)	22 36 (29)	7 3 (5)	10 10 (10)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (637)	2-AA (1241)	NaN ₃ (348)	2-AA (316)	AF-2 (876)	2-AA (945)	AF-2 (442)	2-AA (457)	9-AA (543)	2-AA (165)

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; Group 2B

Experimental Data-2

(B9715-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 _{uvrA} /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(135)	(127)	(10)	(10)	(38)	(61)	(22)	(33)	(11)	(17)
313	113	122	15	17	29	60	29	37	9	16
	(107)	(126)	(13)	(16)	(34)	(57)	(27)	(31)	(11)	(18)
625	105	121	10	13	45	57	25	36	10	15
	(116)	(125)	(11)	(12)	(42)	(60)	(27)	(32)	(13)	(13)
1250	120	119	5	13	46	63	23	33	6	11
	(125)	(107)	(5)	(12)	(45)	(60)	(22)	(33)	(7)	(14)
2500	107	119	11	18	51	69	29	21	7	13
	(105)	(109)	(10)	(17)	(42)	(61)	(23)	(27)	(6)	(14)
5000	101	99	9	10	46	66	18	31	6	16
	(95)	(91)	(9)	(12)	(46)	(60)	(22)	(30)	(10)	(15)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 (590)	2-AA (1202)	NaN ₃ (385)	2-AA (341)	AF-2 (1069)	2-AA (1092)	AF-2 (471)	2-AA (458)	9-AA (533)	2-AA (180)