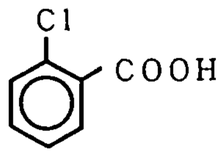
o-Chlorobenzoic acid (o-クロル安息香酸)

Chemical Name: o-Chlorobenzoic acid
Synonym: 2-Chlorobenzoic acid
Benzoic acid, 2-chloro-
Molecular weight: 142.57
Melting point: 138~140℃
Boiling point:

Chemical Structure



CAS No : 118-91-2
MITI No: (3)-1424
ML No: 4-(4)-164
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot.No.: STM5444
Purity:
Vehicle: DMSO

Mutagenicity
in Bacterial Test: Negative

IARC Evaluation: not yet cited

Experimental Data

Number of Revertants/plate

Con. μg/plate	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(172)	(197)	(29)	(17)	(24)	(28)	(14)	(28)	(9)	(20)	(9)	(9)
	198	224	30	15	36	21	22	47	11	20	8	11
	184	250	18	18	30	17	21	44	23	20	12	7
100	(191)	(237)	(24)	(17)	(33)	(19)	(22)	(46)	(17)	(20)	(10)	(9)
	194	188	25	23	26	31	25	40	16	17	3	11
	210	242	32	22	31	26	27	38	13	20	6	11
200	(202)	(215)	(29)	(23)	(29)	(29)	(26)	(39)	(15)	(19)	(5)	(11)
	180	218	27	15	15	26	21	64	18	15	8	12
	203	228	26	12	25	25	23	40	13	12	7	11
500	(192)	(223)	(27)	(14)	(20)	(26)	(22)	(55)	(16)	(13)	(8)	(13)
	146	196	17	17	18	16	20	38	7	20	8	10
	169	229	35	13	18	25	21	40	8	12	11	11
1000	(158)	(213)	(26)	(15)	(18)	(21)	(21)	(39)	(8)	(16)	(10)	(11)
	168	227	26	6	12	20	22	42	8	10	7	7
	163	198	33	16	22	11	21	35	10	10	3	6
2000	(166)	(213)	(30)	(11)	(17)	(16)	(22)	(39)	(9)	(10)	(5)	(7)
	150	177	22	20	15	18	15	37	12	13	1	10
	179	197	20	20	13	10	22	38	5	15	5	5
5000	(165)	(187)	(21)	(20)	(14)	(14)	(19)	(38)	(9)	(14)	(3)	(8)
	102*	40*	3*	15*	5*	8*	6*	26*	2*	3*	0*	2*
	110*	51*	5*	7*	13*	15*	6*	28*	3*	6*	0*	0*
10000	(106*)	(46*)	(4*)	(11*)	(9*)	(12*)	(6*)	(27*)	(3*)	(5*)	(0*)	(1*)
Judgement	—	—	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity Positive Control	AF2 (798)	2AA 0.5 (776)	NaN_3 (300)	2AA (237)	AF2 (279)	2AA (1402)	AF2 (600)	2AA (496)	9AA (128)	2AA (613)	4NQO (297)	2AA (271)