

Aluminum chloride(anhydrous) (塩化アルミニウム)

<b>Chemical Name:</b> Aluminum chloride (anhydrous)
<b>Synonym</b>
<b>Molecular weight:</b> 133.34
<b>Melting point:</b> 190 ~ 194°C (2.5 atm)
<b>Boiling point:</b> 180°C (1 atm)
<b>Chemical Structure</b>
AlCl <sub>3</sub>
<b>CAS No:</b> 7446-70-0
<b>MITI No:</b> (1)-12
<b>Source of Substance:</b> Wako Pure Chem. Ind., Ltd.
<b>Lot. No.:</b> STM2422
<b>Purity:</b> Extra pure reagent
<b>Vehicle:</b> DMSO

Mutagenicity  
in Bacterial Test: Positive

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	(94)	(108)	(19)	(13)	(49)	(44)	(11)	(24)	(7)	(7)	(12)	(21)
	92	101	19	12	55	35	15	26	6	7	10	29
	95	108	14	9	52	56	16	19	6	15	10	26
20	(94)	(105)	(17)	(11)	(54)	(46)	(16)	(23)	(6)	(11)	(10)	(28)
	90	100	25	18	38	48	11	34	4	9	7	25
	98	107	28	8	43	45	12	30	9	6	12	22
50	(94)	(104)	(27)	(13)	(41)	(47)	(12)	(32)	(7)	(8)	(10)	(24)
	88	114	14	10	45	42	13	35	9	17	12	20
	86	129	17	10	44	54	14	32	8	12	8	23
100	(87)	(122)	(16)	(10)	(45)	(48)	(14)	(34)	(9)	(15)	(10)	(22)
	117	103	19	14	34	44	16	28	8	13	9	29
	89	125	11	17	48	59	13	27	4	11	14	21
200	(103)	(114)	(15)	(16)	(41)	(52)	(14)	(28)	(6)	(12)	(12)	(25)
	116	129	17	8	45	47	16	23	5	10	13	20
	107	125	13	9	59	53	13	30	7	11	20	24
500	(112)	(127)	(15)	(9)	(52)	(50)	(15)	(27)	(6)	(11)	(17)	(22)
	146	143	16	9	60	48	21	53	10	9	13	26
	130	182	20	11	57	36	25	45	4	13	24	19
1000	(138)	(163)	(18)	(10)	(49)	(42)	(23)	(49)	(7)	(11)	(21)	(23)
	187	234	13	17	60	57	34	60	10	6	13	21
	210	223	12	16	45	58	37	64	6	9	15	22
2000	(199)	(229)	(13)	(17)	(53)	(58)	(36)	(62)	(8)	(8)	(14)	(22)
	0*	0*	0*	0*	60	28*	0*	0*	0*	0*	0*	11*
	0*	0*	0*	0*	23*	15*	0*	0*	0*	0*	0*	0*
5000	(0*)	(0*)	(0*)	(0*)	(42*)	(22*)	(0*)	(0*)	(0*)	(0*)	(0*)	(6*)
	+	+	-	-	-	-	+	+	-	-	-	-
	52.5	60.5					12.5	25.0				
	AF2	2AA 0.5	NaN <sub>3</sub>	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(403)	(638)	(189)	(251)	(423)	(675)	(252)	(442)	(737)	(176)	(460)	(460)