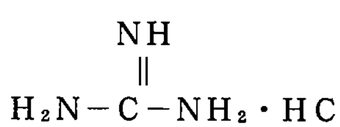
Guanidine hydrochloride (塩酸グアニジン)

Chemical Name: Guanidine hydrochloride
Synonym
Molecular weight: 95.53
Melting point: 181 ~ 184℃
Boiling point:

Chemical Structure



CAS No: 50-01-1
MITI No: (2)-1773
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot.No.: STR8608
Purity:
Vehicle: H_2O

Mutagenicity
in Bacterial Test: Negative

IARC Evaluation: not yet cited

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+
H_2O	(133)	(132)	(16)	(11)	(54)	(64)	(17)	(37)	(6)	(11)	(18)	(27)
	125	125	19	16	56	63	23	40	5	8	14	28
	143	121	13	9	42	68	18	35	4	7	21	22
20	(134)	(123)	(16)	(13)	(49)	(66)	(21)	(38)	(5)	(8)	(18)	(25)
	133	136	22	10	49	57	20	23	4	7	14	25
	138	118	17	13	53	59	22	41	7	11	20	23
50	(136)	(127)	(20)	(12)	(51)	(58)	(21)	(32)	(6)	(9)	(17)	(24)
	128	126	11	8	52	73	11	34	3	11	18	37
	121	131	16	10	49	71	22	35	5	8	13	30
100	(125)	(129)	(14)	(9)	(51)	(72)	(17)	(35)	(4)	(10)	(16)	(34)
	128	135	15	10	57	64	22	28	2	13	17	22
	125	136	14	11	57	58	16	31	4	8	15	22
200	(127)	(136)	(15)	(11)	(57)	(61)	(19)	(30)	(3)	(11)	(16)	(22)
	132	120	9	9	58	56	21	28	4	15	17	27
	134	121	21	9	46	61	26	38	8	11	20	31
500	(133)	(121)	(15)	(9)	(52)	(59)	(24)	(33)	(6)	(13)	(19)	(29)
	154	115	14	15	40	50	21	33	5	8	14	26
	145	108	15	9	57	65	20	30	7	10	22	21
1000	(150)	(112)	(15)	(12)	(49)	(58)	(21)	(32)	(6)	(9)	(18)	(24)
	135	108	15	13	58	67	16	27	6	11	18	23
	130	128	14	9	48	63	17	34	5	13	18	32
2000	(133)	(118)	(15)	(11)	(53)	(65)	(17)	(30)	(6)	(12)	(18)	(28)
	125	122	8	7	48	54	24	28	7	7	21	23
	148	113	16	9	60	58	22	25	3	6	12	30
5000	(137)	(118)	(12)	(8)	(54)	(56)	(23)	(27)	(5)	(7)	(17)	(27)
Judgement	—	—	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity Positive Control	AF2 (420)	2AA 0.5 (482)	NaN_3 (184)	2AA (256)	AF2 (405)	2AA (918)	AF2 (356)	2AA (630)	9AA (753)	2AA (184)	2NF (446)	2AA (726)