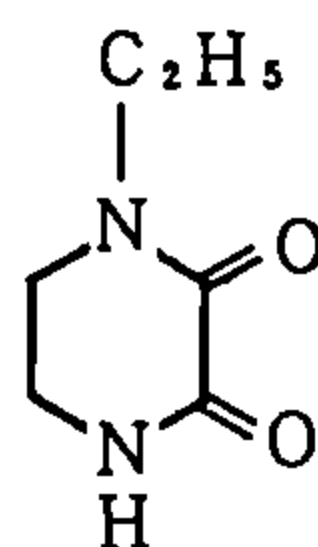


1-Ethyl-2,3-piperazinedione (1-エチルピペラジンジオン)

Experimental Data

Chemical Name:	1-Ethyl-2,3-piperazinedione
Synonym	1-Ethyl-2,3-dioxopiperazine
Molecular weight:	142
Melting point:	°C
Boiling point:	°C
Chemical Structure	
CAS No:	59702-31-7
MITI No:	(5)-5806, (5)-5872
ML No:	8-(2)-962
Source of Substance:	Kouei Kagaku Kogyo Co., Ltd.
Lot. No.:	8408
Purity:	
Vehicle:	H ₂ O

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 ₂ O	(217)	(208)	(27)	(11)	(23)	(34)	(25)	(43)	(8)	(16)	(12)	(26)
	203	222	34	19	27	41	15	42	8	17	20	24
	185	190	42	16	38	31	12	43	11	35	18	35
100	(194)	(206)	(38)	(18)	(33)	(36)	(14)	(43)	(10)	(26)	(19)	(30)
	205	205	35	10	21	31	20	72	8	12	15	36
	207	203	36	16	33	23	18	48	6	16	14	17
200	(206)	(204)	(36)	(13)	(27)	(27)	(19)	(60)	(7)	(14)	(15)	(27)
	207	202	17	11	33	33	25	58	4	17	11	31
	215	205	32	11	33	31	21	43	9	17	18	43
500	(211)	(205)	(25)	(11)	(33)	(32)	(23)	(51)	(7)	(17)	(15)	(37)
	180	196	38	4	26	30	14	53	9	16	10	31
	187	206	31	6	23	29	28	50	9	16	27	26
1000	(184)	(201)	(35)	(5)	(25)	(30)	(21)	(52)	(9)	(16)	(19)	(29)
	206	196	21	10	26	25	26	28	13	22	11	31
	198	214	18	11	16	23	26	45	11	18	18	29
2000	(202)	(205)	(20)	(11)	(21)	(24)	(26)	(37)	(12)	(20)	(15)	(30)
	207	220	26	11	19	14	28	47	11	21	7	18
	177	205	40	18	18	23	26	50	6	18	14	42
5000	(192)	(213)	(33)	(15)	(19)	(19)	(27)	(49)	(9)	(20)	(11)	(30)
	178	206	31	12	20	35	21	44	12	20	11	30
	206	231	21	19	25	26	20	59	11	16	19	33
10000	(192)	(219)	(26)	(16)	(23)	(31)	(21)	(52)	(12)	(18)	(15)	(31)
	—	—	—	—	—	—	—	—	—	—	—	—
Judgement												
Specific Mutagenicity												
Positive	AF2	2AA 0.5	NaN ₃	2AA	AF2	2AA 80	AF2	2AA	9AA	2AA	4NQO	2AA
Control	(783)	(787)	(339)	(279)	(290)	(1271)	(552)	(612)	(117)	(416)	(409)	(454)