

Ethylene glycol (エチレングリコール)

Experimental Data

Chemical Name: Ethylene glycol Synonym: Glycol 1,2-Ethanediol Molecular weight: 62.07 Boiling point: 196~198°C Melting point: -13°C Flashing point: > 110°C Chemical Structure HOCH ₂ CH ₂ OH CAS No: 107-21-1 MITI No: (2)-230 Source of Substance: Tokyo Kasei Kogyo Co., Ltd. Lot. No.: FAY01 Purity: 99 %以上 Vehicle: H ₂ O	Con. μg/ plate	Number of Revertants/plate									
		Base-substitution						Frame-shift			
		TA100		TA1535		WP2uvrA		TA98		TA1537	
		S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
H ₂ O	(131)	(125)	(16)	(13)	(46)	(52)	(16)	(30)	(5)	(8)	
	148	139	13	13	47	53	24	32	3	8	
	135	122	25	9	45	39	22	27	6	9	
50	(142)	(131)	(19)	(11)	(46)	(46)	(23)	(30)	(5)	(9)	
	123	108	21	20	41	45	10	39	2	10	
	132	124	16	11	50	45	11	31	8	4	
100	(128)	(116)	(19)	(16)	(46)	(45)	(11)	(35)	(5)	(7)	
	99	104	20	20	45	41	14	30	8	7	
	137	122	18	15	66	43	15	35	8	8	
200	(118)	(113)	(19)	(18)	(56)	(42)	(15)	(33)	(8)	(8)	
	125	130	19	12	33	46	13	28	5	3	
	136	135	19	10	24	57	15	27	6	6	
500	(131)	(133)	(19)	(11)	(29)	(52)	(14)	(28)	(6)	(5)	
	124	143	17	10	40	54	19	21	3	10	
	127	125	25	11	26	55	17	31	2	10	
1000	(126)	(134)	(21)	(11)	(33)	(55)	(18)	(26)	(3)	(10)	
	113	133	18	9	47	56	13	26	11	8	
	122	126	27	18	43	54	11	33	6	6	
2000	(118)	(130)	(23)	(14)	(45)	(55)	(12)	(30)	(9)	(7)	
	120	117	14	16	31	56	13	17	6	4	
	125	133	17	9	29	41	18	32	8	8	
5000	(123)	(125)	(16)	(13)	(30)	(49)	(16)	(25)	(7)	(6)	
Judgement	—	—	—	—	—	—	—	—	—	—	
Specific Mutagenicity	—	—	—	—	—	—	—	—	—	—	
Positive	AF2	2AA	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA	
Control	(557)	(1065)	(293)	(367)	(398)	(1005)	(287)	(245)	(734)	(347)	