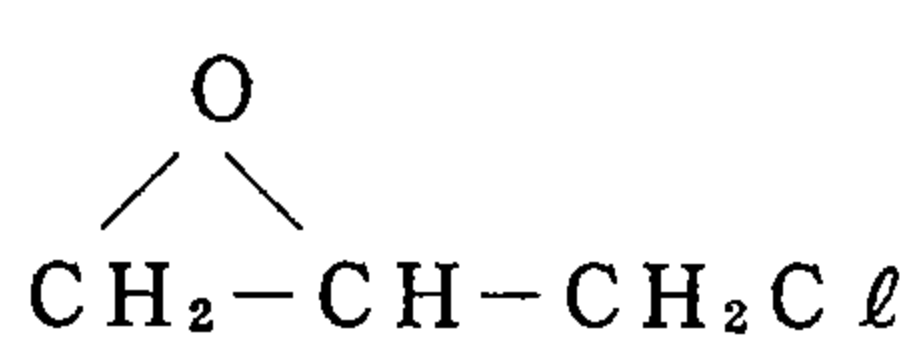


1-Chloro-2,3-epoxypropane (1-クロロ-2,3-エポキシプロパン)

Experimental Data

Chemical Name: 1-Chloro-2,3-epoxypropane Synonym: Epichlorohydrin 3-Chloropropylene oxide Oxirane, (chloromethyl)-	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+	
Molecular weight: 92.52	DMSO	(143)	(139)	(33)	(19)	(54)	(57)	(15)	(29)	(5)	(8)
Boiling point: 115~118°C		363	149	131	32	147	65	10	31	4	8
Melting point: -57°C		291	149	154	45	151	65	19	42	3	9
Flashing point: 33°C	50	(328)	(149)	(143)	(39)	(149)	(65)	(15)	(37)	(4)	(9)
Chemical Structure		529	199	290	51	191	70	13	53	8	11
	100	656	206	251	40	222	72	16	35	6	8
		(593)	(203)	(271)	(46)	(207)	(71)	(15)	(44)	(7)	(10)
		1037	303	670	80	282	143	17	41	14	10
	200	971	321	615	93	295	148	13	43	10	10
		(1004)	(312)	(643)	(87)	(289)	(146)	(15)	(42)	(12)	(10)
		2047	709	900	293	458	482	42	40	17	7
	500	2187	811	828	281	444	373	30	39	7	10
		(2117)	(760)	(864)	(287)	(451)	(428)	(36)	(40)	(12)	(9)
		4803	1527	1960	619	815	711	26	47	15	8
	1000	4641	1577	1871	701	886	782	31	45	16	13
		(4722)	(1552)	(1916)	(660)	(851)	(747)	(29)	(46)	(16)	(11)
		6912	3360	2105	1167	1320	1387	42	79	16	15
	2000	5699	3255	2149	1072	1278	1370	44	55	17	16
		(6306)	(3308)	(2127)	(1120)	(1299)	(1379)	(43)	(67)	(17)	(16)
		4959	4828	2045	1156	1249	1303	0	28	0	13
	5000	4512	4606	2032	1048	1334	1342	0	46	0	11
		(4736)	(4717)	(2039)	(1102)	(1292)	(1323)	(0*)	(37)	(0*)	(12)
Mutagenicity in Bacterial test: Positive	Judgement	+	+	+	+	+	+	+	+	+	-
IARC Evaluation: G 2A	Specific Mutagenicity	4580	1580	3050	641	1900	742	14.0	19.0	14.0	
	Positive	AF2	2AA	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA
	Control	(688)	(1251)	(346)	(540)	(527)	(986)	(452)	(470)	(489)	(466)