

Chemical Name ; <u>Ethyl chloride</u> Synonym ; <u>Chloroethane</u> <u>Monochloroethane</u> <u>クロロエタン</u> Molecular Weight ; 64.51 Melting Point ; -139 °C[Aldrich] Boiling Point ; 12.3°C[Aldrich] Flashing Point ; - Molecular Formula ; C ₂ H ₅ Cl Chemical Structure CH ₃ CH ₂ Cl CAS No. ; 75-00-3 MITI No. ; (2)-53 ML No. ; - Specified Chemical Substances ; - Source of Substance; Tokyo Kasei Kogyo Co., Ltd. Lot No. ; FAW01 Purity ; 99% Vehicle ; Air Exposure Condition ; 37°C, 48hr Culture Condition ; 37°C, 48hr	Conc. %	Number of Revertants/plate									
		Base-substitution					Frame-shift				
		TA100		TA1535		WP2uvrA		TA98		TA1537	
		S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	Air	(209)	(227)	(18)	(9)	(18)	(17)	(13)	(27)	(7)	(15)
	0.9	194 227 (211)		20 18 (19)		39 41 (40)		13 13 (13)		4 10 (7)	
	1.0		213 229 (221)		8 10 (9)		43 36 (40)		24 36 (30)		21 12 (17)
	1.6	255 232 (244)	231 213 (222)	20 24 (22)	26 20 (23)	58 50 (54)	69 82 (76)	17 17 (17)	28 27 (28)	8 5 (7)	16 16 (16)
	3.6	272 263 (268)		86 79 (83)		207 217 (212)		14 12 (13)		12 6 (9)	
	3.8		245 294 (270)		98 110 (104)		232 264 (248)		25 25 (25)		21 14 (18)
7.5	329 393 (361)		255 259 (257)		635 648 (642)		15 13 (14)		15 10 (13)		
7.6		495 451 (473)		339 312 (326)		670 615 (643)		30 35 (33)		16 21 (19)	
17	592 * 550 * (571 *)	789 * 736 * (763 *)	710 * 659 * (685 *)	814 * 859 * (837 *)	630 * 640 * (635 *)	1103 * 941 * (1022 *)	17 * 12 * (15 *)	28 * 30 * (29 *)	8 * 8 * (8 *)	25 * 18 * (22 *)	
Judgement	+	+	+	+	+	+	-	-	-	-	
Specific Mutagenicity #	17%	7.6%	3.6%	1.6%	1.6%	1.0%					
Positive Control	AF-2 (1413)	2-AA (1326)	NaN ₃ (250)	2-AA (326)	AF-2 (1168)	2-AA/20 (1464)	AF-2 (431)	2-AA (324)	9-AA (402)	2-AA (556)	

* Growth inhibition was observed.

The concentration which was two times of the negative control value was shown.