

Chemical Name ; <u>Chlorodifluoromethane</u> Synonym ; <u>Monochlorodifluoromethane</u> <u>Difluorochloromethane</u> <u>HCFC-22</u> <u>R-22</u> <u>フロン 22</u> Molecular Weight ; 86.47 Melting Point ; -146 °C[Aldrich] Boiling Point ; -40.7°C[Aldrich] Flashing Point ; - Molecular Formula ; CHClF <sub>2</sub> Chemical Structure CHClF <sub>2</sub> CAS No. ; 75-45-6 MITI No. ; (2)-93 ML No. ; - Specified Chemical Substances ; - Source of Substance; Matheson Lot No. ; 10467, 10539 Purity ; 99.9% 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+/40%	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%
	Air	( 131 )	( 127 )	( 33 )	( 22 )	( 48 )	( 35 )	( 20 )	( 26 )	( 12 )	( 12 )
		112	120	31	31	30	34	17	22	10	22
		122	124	38	43	47	47	20	27	6	16
	2	( 117 )	( 122 )	( 35 )	( 37 )	( 39 )	( 41 )	( 19 )	( 25 )	( 8 )	( 19 )
			133		43		42		29		14
	4		134 ( 134 )		29 ( 36 )		46 ( 44 )		18 ( 24 )		17 ( 16 )
		137		48		48		16		11	
	5	130 ( 134 )		60 ( 54 )		34 ( 41 )		16 ( 16 )		10 ( 11 )	
		126	166	66	56	42	52	17	22	12	16
10	153 ( 140 )	159 ( 163 )	65 ( 66 )	69 ( 63 )	53 ( 48 )	53 ( 53 )	19 ( 18 )	25 ( 24 )	6 ( 9 )	14 ( 15 )	
	173		97		59		17		10		
17	160 ( 167 )		96 ( 97 )		48 ( 54 )		13 ( 15 )		10 ( 10 )		
		202		118		43		27		20	
19		245 ( 224 )		123 ( 121 )		40 ( 42 )		30 ( 29 )		15 ( 18 )	
		301		198		35		30		12	
49		279 ( 290 )		207 ( 203 )		44 ( 40 )		17 ( 24 )		12 ( 12 )	
	237		148		69		15		10		
50	242 ( 240 )		151 ( 150 )		69 ( 69 )		12 ( 14 )		7 ( 9 )		
Judgement	+	+	+	+	-	-	-	-	-	-	
Specific Mutagenicity #	50%	49%	10%	10%							
Positive Control	AF-2 ( 367 )	2-AA ( 406 )	NaN <sub>3</sub> ( 300 )	2-AA ( 691 )	AF-2 ( 333 )	2-AA ( 673 )	AF-2 ( 309 )	2-AA ( 48 )	9-AA ( 572 )	2-AA ( 422 )	

Mutagenicity in Bacterial Test ; Positive

IARC Evaluation ; Group 3

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