

1,2-Dichloro-1,1,2,2-tetrafluoroethane

(1,2-ジクロロ-1,1,2,2-テトラフルオロエタン)

Experimental Data-1

(B8611-1/1)

Chemical Name	: <u>1,2-Dichloro-1,1,2,2-tetrafluoroethane</u>
Synonym	: <u>1,2-Dichlorotetrafluoroethane</u> <u>Cryofluorane</u> <u>CFC-114</u> <u>R-114</u> <u>フロン-114</u>
Molecular Weight	: 170.92
Melting Point	: 94 °C[Aldrich]
Boiling Point	: 3.8°C[Aldrich]
Flashing Point	: -
Molecular Formula	: C ₂ Cl ₂ F ₄
Chemical Structure	ClCF ₂ CClF ₂
CAS No.	: 76-14-2
MITI No.	: (2)-94
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: AU01
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	
Air	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(176)	(208)	(19)	(13)	(18)	(29)	(18)	(35)	(11)
3.4		217 215 (216)		14 11 (13)		23 38 (31)		29 35 (32)		23 18 (21)
3.6	172 160 (166)		15 16 (16)		14 19 (17)		22 20 (21)		11 12 (12)	
6.0	164 208 (186)	168 174 (171)	17 10 (14)	5 14 (10)	21 15 (18)	23 28 (26)	15 15 (15)	25 24 (25)	15 11 (13)	30 23 (27)
12	172 163 (168)	184 186 (185)	24 24 (24)	12 8 (10)	15 17 (16)	18 24 (21)	16 23 (20)	33 29 (31)	11 11 (11)	19 19 (19)
23	175 188 (182)	198 179 (189)	17 14 (16)	9 11 (10)	14 15 (15)	24 32 (28)	25 17 (21)	30 26 (28)	16 19 (18)	15 18 (17)
50	162 215 (189)		18 14 (16)		7 16 (12)		17 12 (15)		11 16 (14)	
51		179 179 (179)		13 10 (12)		25 25 (25)		20 29 (25)		18 18 (18)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (937)	2-AA (1148)	NaN ₃ (265)	2-AA (385)	AF-2 (346)	2-AA/20 (1291)	AF-2 (479)	2-AA (260)	9-AA (510)	2-AA (661)

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation : not yet cited