

Chemical Name	: <u>Dichlorodifluoromethane</u>
Synonym	: <u>Difluorodichloromethane</u> <u>CFC-12</u> <u>R-12</u> <u>フロン-12</u>
Molecular Weight	: 120.91
Melting Point	: -158 °C[Merck]
Boiling Point	: -29.8°C[Merck]
Flashing Point	: -
Molecular Formula	: CCl ₂ F ₂
Chemical Structure	CCl ₂ F ₂
CAS No.	: 75-71-8
MITI No.	: (2)-50
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: FAT01
Purity	: >99%
Vehicle	: Air
Exposure Condition	: 37°C, 48hr
Culture Condition	: 37°C, 48hr

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

Conc. %	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA		TA98		TA1537	
Air	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%
		(134)	(134)	(30)	(19)	(52)	(45)	(18)	(28)	(8)
2	104 100 (102)	112 132 (122)	29 20 (25)	13 17 (15)	45 31 (38)	34 40 (37)	14 12 (13)	30 37 (34)	9 5 (7)	13 21 (17)
4	120 124 (122)	125 98 (112)	20 20 (20)	21 14 (18)	40 43 (42)	33 39 (36)	14 15 (15)	29 35 (32)	4 6 (5)	15 11 (13)
8	107 118 (113)	141 149 (145)	17 17 (17)	26 17 (22)	48 56 (52)	31 43 (37)	20 15 (18)	40 26 (33)	7 6 (7)	13 13 (13)
16	104 93 (99)		21 30 (26)		68 58 (63)		15 17 (16)		5 8 (7)	
17		106 117 (112)		27 20 (24)		34 33 (34)		28 25 (27)		14 14 (14)
45	108 110 (109)		33 28 (31)		47 30 (39)		14 15 (15)		3 5 (4)	
46		141 120 (131)		17 22 (20)		35 41 (38)		22 33 (28)		17 10 (14)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (345)	2-AA (432)	NaN ₃ (257)	2-AA (547)	AF-2 (271)	2-AA (803)	AF-2 (291)	2-AA (55)	9-AA (700)	2-AA (97)