

Chemical Name	: 1,1-Difluoroethane
Synonym	: HFC-152a R-152a フロン-152a
Molecular Weight	: 66.05
Melting Point	: -117 °C[Aldrich]
Boiling Point	: -24.7°C[CHCD]
Flashing Point	: -
Molecular Formula	: C ₂ H ₄ F ₂
Chemical Structure	F ₂ CHCH ₃
CAS No.	: 75-37-6
MITI No.	: (2)-86
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: AN01
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+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(147)	(163)	(19)	(11)	(20)	(24)	(17)	(33)	(8)	(19)
2 .4		170 156 (163)		14 13 (14)		25 26 (26)		36 30 (33)		21 18 (20)
2 .5	164 110 (137)		8 25 (17)		19 24 (22)		21 27 (24)		10 13 (12)	
5 .0	126 134 (130)		21 18 (20)		10 15 (13)		20 25 (23)		11 9 (10)	
5 .1		160 125 (143)		7 9 (8)		22 23 (23)		32 35 (34)		23 15 (19)
9 .6	151 144 (148)		17 20 (19)		17 15 (16)		22 24 (23)		6 10 (8)	
9 .7		160 130 (145)		10 10 (10)		16 25 (21)		44 32 (38)		15 22 (19)
18	153 129 (141)		21 17 (19)		14 19 (17)		26 17 (22)		6 11 (9)	
19		126 107 (117)		9 11 (10)		19 32 (26)		33 32 (33)		19 24 (22)
44	148 122 (135)	150 124 (137)	25 10 (18)	10 14 (12)	16 17 (17)	19 17 (18)	32 19 (26)	38 30 (34)	9 13 (11)	16 15 (16)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (1511)	2-AA (1185)	NaN ₃ (320)	2-AA (398)	AF-2 (569)	2-AA/20 (1568)	AF-2 (543)	2-AA (425)	9-AA (293)	2-AA (630)