

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 <sub>2</sub> H <sub>4</sub> F <sub>2</sub>
Chemical Structure	F <sub>2</sub> CHCH <sub>3</sub>
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 <sub>3</sub> ( 320 )	2-AA ( 398 )	AF-2 ( 569 )	2-AA/20 ( 1568 )	AF-2 ( 543 )	2-AA ( 425 )	9-AA ( 293 )	2-AA ( 630 )