Chloroform (クロロホルム)

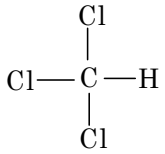
Experimental Data-1

Experimental Data-2 (B0204-1/1)

Chemical Name ; Chloroform
Synoym ; Trichloromethane
FLON-20

Molecular Weight ; 119.38
Melting Point ; -63.2℃[CHCD]
Boiling Point ; 61.3℃[CHCD]
Flashing Point ; −
Molecular Formular; $CHCl_3$

Chemical Structure;



CAS No. ; 67-66-3
METI No. ; (2)-37
MHLW No. ; −
Specified Chemical Substances; −

Source of Substance; Tokyo Kasei Kogyo Co., Ltd.
Lot No. ; GG01
Purity ; 99%

Vehicle ; Air
ExposureCondition ; 37℃, 24hr
Culture Condition ; 37℃, 24hr

Mutagenicity in Bacterial Test; Positive

IARC Evaluation ; Group 2B

Conc. %	Number of Revertants/plate		
	Base-substitution		
	WP2/pKM101		
	S9−	S9+ without glutathion	S9+ with glutathion 1)
Air	(60)	(64)	(59)
	55	87	128
	55	77	98
0 .05	(55)	(82)	(113)
	52	70	91
	72	89	96
0 .1	(62)	(80)	(94)
	53	83	123
	49	87	107
0 .2	(51)	(85)	(115)
	46	87	131
	46	91	146
0 .5	(46)	(89)	(139)
	81	106	108
	60	100	109
1	(71)	(103)	(109)
	59	69	100
	52	97	129
2	(56)	(83)	(115)
	17 *	31 *	28 *
	31 *	40 *	20 *
5	(24 *)	(36 *)	(24 *)
Judgement	−	−	+
Specific Mutagenicity #			0.5%
Positive Control	MMC (249)	2-AA (270)	2-AA (147)

Conc. %	Number of Revertants/plate		
	Base-substitution		
	WP2/pKM101		
	S9−	S9+ without glutathion	S9+ with glutathion 1)
Air	(53)	(66)	(55)
	47	81	86
	54	76	85
0 .05	(51)	(79)	(86)
	56	72	89
	53	62	91
0 .1	(55)	(67)	(90)
	51	78	120
	46	64	86
0 .2	(49)	(71)	(103)
	38	96	121
	45	77	124
0 .5	(42)	(87)	(123)
	49	77	120
	61	87	113
1	(55)	(82)	(117)
	47	81	114
	38	86	126
2	(43)	(84)	(120)
	24 *	16 *	17 *
	28 *	11 *	24 *
5	(26 *)	(14 *)	(21 *)
Judgement	−	−	+
Specific Mutagenicity #			0.5%
Positive Control	MMC (230)	2-AA (281)	2-AA (138)

* Growth inhibition was observed.
# The concentration which was two times of the negative control value was shown.
1) 5 μ mol/plate.