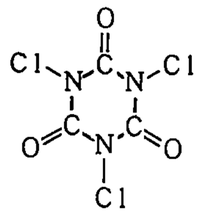
Trichloroisocyanuric acid(塩素化イソシアヌル酸)

Chemical Name: Trichloroisocyanuric acid
Synonym: Symclosene
1,3,5-Trichloro-1,3,5-triazine-2,4,6(1H,3H,5H)-trione
Molecular weight: 232.41
Melting point: 247℃
Boiling point: ℃

Chemical Structure



CAS No: 87-90-1
MITI No: (5)-1044

Source of Substance:Tokyo Kasei Kogyo Co.Ltd
Lot.No.: AU01
Purity: extra pure reagent
Vehicle: H_2O

Mutagenicity
in Bacterial Test: Negative

IARC Evaluation: not yet cited

Experimental Data

Number of Revertants/plate

Con. μg/plate	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
H_2O	(220)	( )	(31)	( )	(28)	( )	(21)	( )	(8)	( )	(12)	( )
	210		29		20		23		8		21	
	227		21		32		31		11		11	
1	(219)	( )	(25)	( )	(26)	( )	(27)	( )	(10)	( )	(16)	( )
	210		21		27		19		14		18	
	186		34		25		30		1		8	
2	(198)	( )	(28)	( )	(26)	( )	(25)	( )	(8)	( )	(13)	( )
	210		23		25		27		9		18	
	216		22		30		25		7		10	
5	(213)	( )	(23)	( )	(28)	( )	(26)	( )	(8)	( )	(14)	( )
	193		35		28		32		15		9	
	201		23		34		29		12		18	
10	(197)	( )	(29)	( )	(31)	( )	(31)	( )	(14)	( )	(13)	( )
	213		28		32		28		8		14	
	193		26		27		15		9		20	
20	(203)	( )	(27)	( )	(30)	( )	(22)	( )	(9)	( )	(17)	( )
	185		16		27		22		13		5	
	178		31		37		21		6		15	
50	(182)	( )	(24)	( )	(32)	( )	(22)	( )	(10)	( )	(10)	( )
	211		34		19*		32		7*		11*	
	201		43		32*		29		7*		23*	
100	(206)	( )	(38)	( )	(26*)	( )	(31)	( )	(7*)	( )	(17*)	( )
	0*		0*		0*		0*		0*		0*	
	0*		0*		0*		0*		0*		0*	
200	(0*)	( )	(0*)	( )	(0*)	( )	(0*)	( )	(0*)	( )	(0*)	( )
Judgement	−		−		−		−		−		−	
Specific Mutagenicity Positive Control	AF2 2AA 0.5		NaN_3 2AA		AF2 2AA		AF2 2AA		9AA 2AA		4NQO 2AA	
	(756)	( )	(302)	( )	(222)	( )	(505)	( )	(126)	( )	(373)	( )

Experimental Data

Con. μg/plate	Number of Revertants/plate											
	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
H_2O	( )	(189)	( )	(10)	( )	(35)	( )	(47)	( )	(12)	( )	(30)
		206		21		35		43		21		23
		208		21		35		47		19		27
10	( )	(207)	( )	(21)	( )	(35)	( )	(45)	( )	(20)	( )	(25)
		192		14		30		42		18		23
		198		11		32		38		16		24
20	( )	(195)	( )	(13)	( )	(31)	( )	(40)	( )	(17)	( )	(24)
		189		16		43		35		21		21
		185		13		28		43		14		14
50	( )	(187)	( )	(15)	( )	(36)	( )	(39)	( )	(18)	( )	(18)
		189		9		21		40		9		23
		185		11		33		43		15		29
100	( )	(187)	( )	(10)	( )	(27)	( )	(42)	( )	(12)	( )	(26)
		227		18		21		42		17		35
		173		12		33		43		14		30
200	( )	(200)	( )	(15)	( )	(27)	( )	(43)	( )	(16)	( )	(33)
		223		28		35		57		14		23
		221		35		36		43		23		25
500	( )	(222)	( )	(32)	( )	(36)	( )	(50)	( )	(19)	( )	(24)
		0*		0*		28		0*		18		12
		0*		0*		31		0*		11		20
1000	( )	(0*)	( )	(0*)	( )	(30)	( )	(0*)	( )	(15)	( )	(16)
		0*		0*		0*		0*		0*		0*
		0*		0*		0*		0*		0*		0*
2000	( )	(0*)	( )	(0*)	( )	(0*)	( )	(0*)	( )	(0*)	( )	(0*)
Judgement	—	—	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity Positive Control	AF2	2AA 0.5	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	( )	(762)	( )	(172)	( )	(1888)	( )	(574)	( )	(517)	( )	(556)