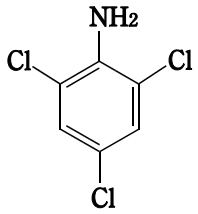
2,4,6-Trichloroaniline
【2,4,6-ﾄﾘｸﾛﾛｱﾆﾘﾝ】

Chemical Name;2,4,6-Trichloroaniline
Synonym ;2,4,6-Trichlorobenzenamine
2,4,6-ﾄﾘｸﾛﾛﾍﾞﾝｾﾞﾅﾐﾝ

Molecular Weight ; 196.45
Melting Point ; 78.5 ℃ [CHCD]
73 - 75 ℃ [Aldrich]
Boiling Point ; 262 ℃(746mmHg) [CHCD]
262 ℃ [Aldrich]
Flashing Point ; — ℃
Molecular Formula; $C_6H_4Cl_3N$

Chemical Structure



CAS No. ; 634-93-5
MITI No. ; (3)-290
ML No. ; 4-(12)-281
Specified Chemical Substances; —

Source of Substance; Wako Junyaku Kogyo Co.,Ltd.
Lot No. ; TWJ2855
Purity ; —

Vehicle ; DMSO

Judgement for
Chromosomal Aberration in CHL ; **Negative**

IARC Evaluation ; not yet cited

Exprimental Data without Metabolic Activation

Treatment						Cell with Structural Chromosome Aberration (%)							
Substance	Time (h)	Concent-ration (mg/ml)	No. of Metaphase	Polyploid (%)	**Judge-ment**		Chromatid		Chromosome		Total		**Judge-ment**
						Gap	CTB	CTE	CSB	CSE	−G	+G	
DMSO	24		200	1.0	−	0.0	0.0	0.5	0.0	0.0	0.5	0.5	−
	48		200	0.0	−	0.0	0.0	1.5	0.0	0.0	1.5	1.5	−
Test	24	0.04	200	0.5	−	0.0	0.0	0.5	0.0	0.0	0.5	0.5	−
Chemical		0.08	200	2.0	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
		0.12	200	0.5	−	0.0	0.5	1.0	0.0	0.0	1.5	1.5	−
		0.16	200	2.0	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
		0.24				No observation for metaphase							
	48	0.04	200	1.5	−	0.0	0.5	0.0	0.0	0.0	0.5	0.5	−
		0.08	200	0.0	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
		0.12	200	2.0	−	0.0	0.0	0.0	0.0	0.0	0.0	0.0	−
		0.16	200	1.5	−	0.0	0.0	2.0	0.0	0.0	2.0	2.0	−
		0.24	134	1.5	−	0.0	0.7	0.0	0.0	0.0	0.7	0.7	−
Positive	24	0.00004	200	0.5	−	2.0	7.5	38.0	0.0	0.0	43.0	43.0	+
Control [MMC]	48	0.00004	200	0.0	−	1.5	15.5	62.5	0.0	1.0	66.5	66.5	+

Exprimental Data with Metabolic Activation

Treatment			No. of Metaphase	Polyploid (%)	Judge-ment	Cell with Structural Chromosome Aberration (%)							
							Chromatid		Chromosome		Total		
Substance	S9 mix	Concent-ration (mg/ml)				Gap	CTB	CTE	CSB	CSE	−G	+G	Judge-ment
DMSO	−		200	1.5	−	0.0	0.0	0.0	0.0	0.5	0.5	0.5	−
	+		200	0.0	−	0.0	0.5	1.0	0.0	0.0	1.5	1.5	−
Test Chemical	−	0.025	200	1.0	−	0.5	0.5	0.0	0.0	0.0	0.5	1.0	−
		0.05	200	2.5	−	1.0	0.0	0.0	0.0	0.0	0.0	1.0	−
		0.1	200	1.5	−	0.0	0.0	0.5	0.0	0.0	0.5	0.5	−
		0.2				No observation for metaphase							
		0.4				No observation for metaphase							
	+	0.025	200	0.5	−	0.5	0.0	0.0	0.0	0.0	0.0	0.5	−
		0.05	200	0.5	−	0.0	0.0	0.5	0.0	0.0	0.5	0.5	−
		0.1	200	1.0	−	1.0	0.0	1.0	0.0	0.0	1.0	2.0	−
		0.2	200	0.5	−	0.5	0.5	0.5	0.0	0.5	1.5	2.0	−
		0.4				No observation for metaphase							
Positive Control [B(a)P]	−	0.01	200	0.0	−	0.5	0.5	0.0	0.0	0.0	0.5	1.0	−
	+	0.01	200	0.5	−	1.0	10.5	39.0	0.0	0.0	43.5	43.5	+

* Test chemical was precipitated.