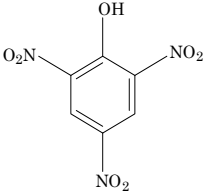


Chemical Name	: <u>2,4,6-Trinitrophenol</u>
Synonym	: <u>Picric acid</u> <u>Phenol, 2,4,6-trinitro-</u> <u>ピクリン酸</u>
Molecular Weight	: 229.11
Melting Point	: 122.5°C[CHCD]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C ₆ H ₃ N ₃ O ₇
Chemical Structure	
CAS No.	: 88-89-1
MITI No.	: (3)-823
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Wako Jyunyaku Kogyo Co., Ltd.
Lot No.	: PTQ3878
Purity	: 99.5%
Vehicle	: DMSO

Substance	Treatment		No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)								
	Time (h)	Concentration (mg/ml)		No. of Metaphase	Judgement	Gap g	Chromatid		Chromosome		Others	Total		Judgement
							ctb	cte	csb	cse		-g	+g	
DMSO	24	1.0%	200	1	-	0	0	0	0	0	0	0	0	-
	48	1.0%	200	0.5	-	0	0	0	0	0	0	0	0	-
Test Chemical	24	0.0078	200	0	-	0	0.5	1	0	0	0	1.5	1.5	-
		0.031	200	1.5	-	0	1.5	1	0	0	0	1.5	1.5	-
		0.13	200	0.5	-	1.5	5.5	2	0	0	0	7.5	9	±
		0.5	200	0.5	-	1.5	18	6	0	0	0	22	23.5	+
		2.0	No obserbation for metaphase											
	48	0.13	200	0.5	-	0.5	2.5	1.5	0	0	0	3.5	4	-
		0.25	200	1.5	-	2	17	4	0	0	0	19.5	21	+
		0.5	200	0.5	-	3	48	25	0	0	0	61.5	62	+
		1.0	121	0	-	7.4	71.9	27.3	0	0	0	75.2	77.7	+
		2.0	No obserbation for metaphase											
Positive Control [MMC]	24	0.00004	200	1	-	0.5	11.5	11.5	0	0	0	21	21.5	+
	48	0.00004	200	2	-	0.5	14.5	27	0.5	0	0	35.5	35.5	+

Judgement for
Chromosomal Aberration in CHL ; Positive

IARC Evaluation ; not yet cited

Experimental Data with Metabolic Activation

Treatment			No. of Metaphase	Polyploid		Cell with Structural Chromosome Aberration (%)								
Substance	S9 mix	Concent- ration (mg/ml)		(%)	Judge- ment	Gap	Chromatid			Chromosome	Others	Total		Judge- ment
							g	ctb	cte			csb	cse	
DMSO	-	1.0%	200	1	-	0	0.5	0.5	0	0	0	1	1	-
	+	1.0%	200	1	-	0	0	0	0	0	0	0	0	-
Test Chemical	-	0.5	200	2	-	0	0	0	0	0	0	0	0	-
		1.0	200	3	-	0	2.5	0	0	0	0	2.5	2.5	-
		1.5	200	1.5	-	0	2.5	1	0	0	0	3.5	3.5	-
		2.0	200	1.5	-	0.5	2.5	1.5	0	0	0	3.5	4	-
		2.5	200	0	-	2.5	7.5	4.5	0	0	0	10.5	12.5	+
		+	0.5	200	2	-	0	0	0	0	0	0	0	0
	+	1.0	200	1	-	0	0.5	0	0	0	0	0.5	0.5	-
	+	1.5	200	3.5	-	0	0.5	0.5	0	0	0	1	1	-
	+	2.0	200	1	-	0.5	0.5	3	0	0	0	3.5	4	-
	+	2.5	200	2.5	-	0	8	9.5	0	0	0	13	13	+
	Positive Control [B[a]P]	-	0.01	200	1.5	-	0	0.5	0.5	0	0	0	1	1
+		0.01	200	0.5	-	0	18	40.5	0	0	0	45	45	+

※ Test conditions: Treatment time ; 6h, Recovery time ; 18h

※ There was no obserbation for methaphase with treatment of -S9 and +S9 at 3.0mg/ml.