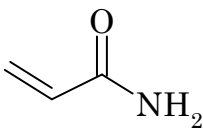


## Acrylamide (アクリルアミド)

## Experimental Data (Short treatments)

Chemical Name ; <u>Acrylamide</u>	S9 mix	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)				
			No. of Metaphase	Chromatid		Chromosome		Others	Total			No. of Metaphase	Poly-ploid	Others	Total	
				ctb	cte	csb	cse									
Synonym ; <u>2-Propenamide</u> <u>Acrylic acid amide</u>	6-18	-	[H <sub>2</sub> O] (10%)	200	1	1	0	0	0	2	0	100	200	0.0	0.0	0.0
Molecular Weight ; 71.08			0.12	200	2	0	0	0	0	2	0	81	202	1.0	0.0	1.0
Melting Point ; 84.5°C [Merck]			0.24	200	1	1.5	0	0	0	2.5	0	72	207	3.4	0.0	3.4
Boiling Point ; 125 °C(25mmHg)[Merck]			0.36	200	6.5	3.5	0	0	0	9.5	0.5	81	218	8.3	0.0	8.3
Flashing Point ; -			0.48	200	14	8	0	0	0	20	1	65	251	20.3	0.0	20.3
Molecular Formula ; C <sub>3</sub> H <sub>5</sub> NO			0.60	200	22	17	0	0	0	32.5	0.5	65	233	14.2	0.0	14.2
Chemical Structure ;			0.72	200	26	25	0	0	0	43	1.5	54	212	5.7	0.0	5.7
			[MMC] (0.0001)	200	15.5	54	0	0	0	59	0	-	201	0.5	0.0	0.5
CAS No. ; 79-06-1	6-18	+	[H <sub>2</sub> O] (10%)	200	0.5	0.5	0	0	0	1	0	100	202	1.0	0.0	1.0
MITI No. ; (2)-1014			0.24	200	0.5	2.5	0	0	0	3	0.5	77	200	0.0	0.0	0.0
ML No. ; -			0.36	200	0.5	1	0	0	0	1	0.5	77	207	3.4	0.0	3.4
Specified Chemical Substances ; Group 2			0.48	200	3	8.5	0	0	0	10	0.5	73	232	13.8	0.0	13.8
Source of Substance ; Wako Pure Chemical Industries Ltd.			0.60	200	6	8.5	0	0	0	12.5	1	52	228	12.3	0.0	12.3
Lot No. ; TCP2691			0.72	200	6.5	11.5	0	0	0	16.5	0	54	203	1.5	0.0	1.5
Purity ; 98.7%			[B[a]P] (0.01)	200	7.5	39	0	0	0	42	0	-	201	0.5	0.0	0.5
Vehicle ; Ultrapure H <sub>2</sub> O																

Judgement for Chromosomal Aberration in CHL ; Positive

IARC Evaluation ; Group 2A

※ Test conditions: S9mix ; 5%, Treatment time ; 6h, Recovery time ; 18h

Experimental Data without Metabolic Activation (Continuous treatments)

Treatment Time (h)	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)			
		No. of Metaphase	Chromatid		Chromosome		Others	Total			No. of Metaphase	Poly-ploid	Others	Total
			ctb	cte	csb	cse								
24-0	[H <sub>2</sub> O] (10%)	200	1	0.5	0	0	0	1.5	0	100	200	0.0	0.0	0.0
	0.025	200	1	1	0	0	0	2	0	103	200	0.0	0.0	0.0
	0.05	200	0.5	1.5	0	0	0	2	0.5	96	204	2.0	0.0	2.0
	0.1	200	14	4.5	0	0	0	16.5	0	68	208	3.8	0.0	3.8
	0.2	200	54	42	0	0	0	72.5	0	52	208	3.8	0.0	3.8
	0.4	200	74	44.5	0	0	0	90	0	45	206	2.9	0.0	2.9
	[MMC] (0.00004)	200	21	42	0	0	0	53.5	1	—	200	0.0	0.0	0.0
48-0	[H <sub>2</sub> O] (10%)	200	1	0.5	0	0	0	1.5	0	100	203	1.5	0.0	1.5
	0.025	200	0	0	0	0	0	0	0	89	203	1.5	0.0	1.5
	0.05	200	1.5	0	0	0	0	1.5	0	67	200	0.0	0.0	0.0
	0.1	200	18.5	6.5	0	0	0	23	1.5	35	212	5.7	0.0	5.7
	0.15	200	60	37.5	0	0	0	72	0.5	24	242	17.4	0.0	17.4
	0.2	200	87	78.5	0	0	2	97.5	1	16	215	7.0	0.0	7.0
	[MMC] (0.00004)	200	22.5	72	0	0.5	0	76	0	—	205	2.4	0.0	2.4

※ Test conditions: Treatment time ; 24h or 48h, Recovery time ; 0h