

2-Nitropropane (2-ニトロプロパン)

Experimental Data (Short treatments)

Chemical Name ; <u>2-Nitropropane</u> Synonym ; - Molecular Weight ; 89.09 Melting Point ; -93 °C[Merck] Boiling Point ; 120.3°C[Merck] Flashing Point ; 24 °C[Merck] Molecular Formula ; C ₃ H ₇ NO ₂ Chemical Structure ; $\begin{array}{c} \text{H}_3\text{C}-\text{CH}-\text{CH}_3 \\ \\ \text{NO}_2 \end{array}$ CAS No. ; 79-46-9 METI No. ; (2)-194 MHLW No. ; Specified Chemical Substances ; - Source of Substance; Wako Pure Chemical Industries, Ltd. Lot No. ; LEF5810 Purity ; 98.2% Vehicle ; Ultrapure water	Treatment Time (h)	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								
6-18	-	[H ₂ O] (10%)	200	0	0	0	0	0	0	0	100	200	0	0	0	
		0.23	200	0	0	0	0	0	0	1	108	201	0.5	0	0.5	
		0.45	200	0.5	0	0	0	0	0.5	0	96	200	0	0	0	
		0.68	200	0.5	0	0	0	0	0.5	0.5	100	200	0	0	0	
		0.90	200	0.5	0	0	0	0	0.5	0.5	98	200	0	0	0	
		[MMC] (0.00012)	200	12	43.5	0	0	0	50	1	-	200	0	0	0	
6-18	+	[H ₂ O] (10%)	200	0	0	0	0	0	0	0	100	200	0	0	0	
		0.23	200	0	0.5	0	0	0	0.5	0	93	201	0.5	0	0.5	
		0.45	200	0	0.5	0	0	0	0.5	0	98	200	0	0	0	
		0.68	200	0	0	0	0	0	0	0	94	202	1	0	1	
		0.90	200	0.5	0	0	0	0	0.5	0	93	200	0	0	0	
		[B[a]P] (0.01)	200	2.5	20	0	0	0	22.5	0	-	200	0	0	0	

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

Judgement for
Chromosomal Aberration in CHL/IU ; Negative

IARC Evaluation ; Group 2B

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 ₂ O] (10%)	200	0	0	0	0	0	0	0	100	200	0	0	0
	0.23	200	0	0	0	0	0	0	0	97	200	0	0	0
	0.45	200	0.5	0	0	0	0	0.5	0	90	201	0.5	0	0.5
	0.68	200	0.5	0.5	0	0	0	1	0	94	200	0	0	0
	0.90	200	0	0	0	0	0	0	0	94	200	0	0	0
	[MMC] (0.00004)	200	7.5	28	0	0	0	34	1.5	—	200	0	0	0
48-0	[H ₂ O] (10%)	200	0	0	0	0	0	0	1	100	200	0	0	0
	0.23	200	0	0	0	0	0	0	0	100	200	0	0	0
	0.45	200	0	0.5	0	0	0	0.5	0	95	201	0.5	0	0.5
	0.68	200	0.5	0	0	0.5	0	1	0	94	200	0	0	0
	0.90	200	0	0	0	0	0	0	0	96	200	0	0	0
	[MMC] (0.00004)	200	10.5	39.5	0	0.5	0	43	1	—	200	0	0	0

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