

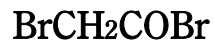
【臭化モノブロモ酢酸】

Experimental Data without Metabolic Activation

Chemical Name; Bromoacetyl bromide
 Synonym ; Monobromoacetyl bromide
 ブロモアセチルブロミド
 ブロモ酢酸ブロマイド
 ブロム酢酸ブロマイド

Molecular Weight ; 201.85
 Melting Point ; — ℃
 Boiling Point ; 150 ℃ [CHCD]
 147 - 150 ℃ [Aldrich]
 Flashing Point ; — ℃
 Molecular Formula; C₂H₂Br₂O

Chemical Structure



CAS No. ; 598-21-0
 MITI No. ; (9)-1275
 ML No. ; —
 Specified Chemical Substances; —

Source of Substance; Tokyo Kasei Kogyo Co., Ltd.
 Lot No. ; FHC01
 Purity ; ≥ 99.5 %

Vehicle ; Dehydrated Acetone

Substance	Treatment		No. of Metaphase	Polyploid (%)	Judge-ment	Cell with Structural Chromosome Aberration (%)							Judge-ment
	Time (h)	Concentration (mg/ml)				Chromatid		Chromosome		Total			
						CTB	CTE	CSB	CSE	-G	+G		
Acetone	24	0.5 %	200	1.0	—	1.0	1.0	0.0	0.0	0.0	1.0	2.0	—
	48	0.5 %	200	0.0	—	1.0	0.0	1.0	0.0	0.0	1.0	1.5	—
Test Chemical	24	0.002	200	3.0	—	0.5	2.0	1.5	0.0	0.0	3.5	4.0	—
		0.004	200	0.0	—	0.5	2.5	1.5	0.0	0.0	4.0	4.5	—
		0.006	200	0.5	—	4.0	13.0	6.5	0.0	0.0	18.0	19.0	+
		0.008	155	1.3	—	4.5	20.0	9.7	0.0	0.0	25.2	25.2	+
		0.010	136	0.7	—	2.9	27.2	15.4	0.0	0.0	33.8	34.6	+
	48	0.002	200	0.0	—	0.0	1.0	0.0	0.0	0.0	1.0	1.0	—
		0.004	200	0.0	—	0.5	3.0	4.0	0.0	0.0	6.5	7.0	±
		0.006	178	2.2	—	0.6	11.2	12.4	0.0	0.0	18.5	18.5	+
		0.008	95	1.1	—	4.2	40.0	34.7	0.0	1.1	52.6	53.7	+
		0.010					No observation for metaphase						
Positive Control	24	0.00004	200	2.0	—	0.0	7.0	18.5	0.0	0.0	24.5	24.5	+
[MMC]	48	0.00004	200	2.0	—	1.5	13.5	33.5	0.0	0.0	41.5	41.5	+

Judgement for

Chromosomal Aberration in CHL ; **Positive**

IARC Evaluation ; not yet cited

Experimental Data with Metabolic Activation

Treatment			No. of Metaphase	Polyploid (%)	Judge- ment	Cell with Structural Chromosome Aberration (%)							Judge- ment
Substance	S9 mix	Concent- ration (mg/ml)				Chromatid		Chromosome		Total			
						Gap	CTB	CTE	CSB	CSE	-G	+G	
Acetone	-	0.5 %	200	0.5	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
	+	0.5 %	200	0.5	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
Test Chemical	-	0.005	200	2.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
		0.01	200	1.0	-	0.0	1.0	0.5	0.0	0.0	1.5	1.5	-
		0.02	200	0.5	-	0.5	1.0	2.0	0.0	0.5	3.5	4.0	-
		0.04					No observation for metaphase						
		0.06					No observation for metaphase						
	+	0.005	200	1.0	-	0.0	0.0	0.5	0.0	0.0	0.5	0.5	-
		0.01	200	1.0	-	0.0	0.0	0.5	0.0	0.0	0.5	0.5	-
		0.02	200	1.5	-	0.5	2.0	3.5	0.0	0.0	5.5	6.0	±
		0.04				No observation for metaphase							
		0.06				No observation for metaphase							
Positive Control (B(a)P)	-	0.01	200	0.0	-	0.0	0.5	0.0	0.0	0.0	0.5	0.5	-
	+	0.01	200	1.5	-	0.5	3.0	17.0	0.0	0.0	20.5	20.5	+