Methylacetylene (メチルアセチレン)

Chemical Name: Methylacetylene
Synonym 1-Propyne
Molecular weight: 40.07
Melting point: -102.7℃
Boiling point: -23.22℃

Chemical Structure

$CH_3C{\equiv}CH$

CAS No : 74-99-7
MITI No : (2)-15
Source of Substance: Tokyo Kasei Kogyo Co., Ltd.
Lot.No.: FAY02
Purity: %
Vehicle: Air

Judgement for
Chromosomal Aberration in CHL: Positive

IARC Evaluation : not yet cited

Experimental Data

	Treated Time (Hr)	Concentration (%)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%) Gap	CTB	CTE	CSB	CSE	Total -G	Total +G	Judge
Air	24		200	1.0	−	0.5	0	0	0	0	0	0.5	−
	48		200	0	−	1.0	0	1.0	0	0	1.0	2.0	−
Test Chemical													
	24	40	200	0	−	1.0	1.0	0.5	0	0	1.5	2.5	−
		60	200	0	−	1.5	1.0	2.0	0	0	3.0	4.5	−
		80	200	0	−	2.5	3.0	4.5	0	0	7.0	9.0	±
		100	200	0	−	2.5	7.5	5.0	0	0	11.5	13.5	+
	48	4	200	0	−	0.5	1.0	1.0	0	0	1.5	2.0	−
		8	200	0	−	2.0	1.5	4.5	0	0	6.0	8.0	±
		12	200	0	−	3.5	2.5	7.0	0	0	9.5	12.0	+
		16	200	1.0	−	2.0	6.0	16.0	0	0	22.0	23.5	+
Positive Control (Methyl chloride)													
	24	2.0	200	0.5	−	5.0	7.5	15.5	0	0	21.5	24.5	+
	48	1.5	200	0.5	−	6.5	6.5	14.0	0	0	18.5	22.5	+

Experimental Data

	S 9 with or without	Concentration (%)	No. of Metaphase	Polyploid (%)	Judge	Cell with Structural Chromosome Aberration (%)							
											Total		
						Gap	CTB	CTE	CSB	CSE	-G	+G	Judge
Air	−		200	0.5	−	0	0	0.5	0	0	0.5	0.5	−
	+		200	0	−	0	0	0.5	0	0	0.5	0.5	−
Test Chemical													
	−	40	200	2.5	−	0	0.5	0.5	0	0	1.0	1.0	−
		60	200	3.5	−	0	0	1.0	0	0	1.0	1.0	−
		80	200	3.5	−	0.5	0	0	0	0	0	0.5	−
		100	200	0.5	−	0.5	0	0.5	0	0	0.5	1.0	−
	+	40	200	2.0	−	0	0	1.0	0	0	1.0	1.0	−
		60	200	3.0	−	0	0	0.5	0	0	0.5	0.5	−
		80	200	3.0	−	0.5	0	1.0	0	0	1.0	1.5	−
		100	200	0.5	−	0.5	0.5	6.0	0	0	6.5	6.5	±
Positive Control (Methyl chloride)													
	−	4.0	200	1.0	−	3.5	3.5	17.5	0	1.0	20.5	23.0	+
(Vinyl chloride)													
	+	2.5	200	1.0	−	2.5	4.5	15.5	0	1.0	19.5	20.5	+