

Chemical Name	: <u>Methylacetylene</u>
Synonym	: <u>Propyne</u> <u>1-Propyne</u> <u>プロピン</u>
Molecular Weight	: 40.07
Melting Point	: -102.7°C[Aldrich]
Boiling Point	: -23.2°C[Aldrich]
Flashing Point	: -
Molecular Formula	: C ₃ H ₄
Chemical Structure	CH ₃ C≡CH
CAS No.	: 74-99-7
MITI No.	: (2)-15
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: FDW01
Purity	: >98%
Vehicle	: Air
Exposure Condition	: 37°C, 48hr
Culture Condition	: 37°C, 48hr

Mutagenicity in Bacterial Test : Positive

IARC Evaluation : not yet cited

Conc. %	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 _{uvrA}		TA98		TA1537	
Air	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%
		(112)	(124)	(29)	(18)	(47)	(38)	(15)	(31)	(7)
2	87 (96)	99 (109)	23 (29)	13 (21)	48 (46)	54 (49)	13 (12)	15 (24)	5 (6)	13 (12)
5		105 (120)		19 (21)		82 (77)		17 (23)		20 (19)
6	97 (92)		29 (31)		65 (60)		11 (13)		6 (6)	
9		149 (130)		26 (27)		83 (84)		18 (17)		9 (10)
10	98 (95)		29 (28)		65 (68)		9 (10)		4 (5)	
21	98 (95)		14 (16)		111 (103)		8 (10)		8 (6)	
22		135 (135)		32 (27)		93 (99)		13 (12)		16 (16)
54	96 (98)	140 (126)	16 (18)	30 (24)	138 (149)	153 (143)	11 (10)	21 (18)	5 (4)	12 (13)
Judgement	-	-	-	-	+	+	-	-	-	-
Specific Mutagenicity #					21%	5%				
Positive Control	AF-2 (377)	2-AA (378)	NaN ₃ (209)	2-AA (764)	AF-2 (267)	2-AA (739)	AF-2 (353)	2-AA (74)	9-AA (696)	2-AA (78)

The concentration which was two times of the negative controle value was shown.