

Chemical Name : 2-Butene  Synonym : 2-Butylene β-Butylene ブテン  Molecular Weight : 56.10 Melting Point : -140°C[Aldrich] Boiling Point : 1°C[Aldrich] Flashing Point : <1°C[Aldrich] Molecular Formula : C <sub>4</sub> H <sub>8</sub>  Chemical Structure CH <sub>3</sub> CH=CHCH <sub>3</sub>  CAS No. : 107-01-7 MITI No. : (2)-16 ML No. : - Specified Chemical Substances : -  Source of Substance: Tokyo Kasei Kogyo Co., Ltd. Lot No. : AL01 Purity : 98% (trans : 58%, cis : 40%)  Vehicle : Air Exposure Condition : 37°C, 48hr Culture Condition : 37°C, 48hr  Mutagenicity in Bacterial Test ; Negative IARC Evaluation : not yet cited	Conc. %	Number of Revertants/plate									
		Base-substitution						Frame-shift			
		TA100		TA1535		WP2uvrA		TA98		TA1537	
		S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%	S9-	S9+/40%
	Air	( 118 )	( 136 )	( 31 )	( 23 )	( 56 )	( 52 )	( 16 )	( 35 )	( 7 )	( 16 )
		118	124	33	24	51	49	17	35	2	20
		103	104	26	29	49	34	20	28	7	21
	2	( 111 )	( 114 )	( 30 )	( 27 )	( 50 )	( 42 )	( 19 )	( 32 )	( 5 )	( 21 )
		95	125	21	31	44	56	10	38	4	24
		87	110	19	40	38	55	17	33	5	14
	5	( 91 )	( 118 )	( 20 )	( 36 )	( 41 )	( 56 )	( 14 )	( 36 )	( 5 )	( 19 )
		116	108	28	29	48	48	18	28	6	18
		97	113	31	31	42	42	20	39	9	18
	12	( 107 )	( 111 )	( 30 )	( 30 )	( 45 )	( 45 )	( 19 )	( 34 )	( 8 )	( 18 )
		110		27		50		16		11	
	93		34		54		18		8		
18	( 102 )		( 31 )		( 52 )		( 17 )		( 10 )		
		105		39		49		30		16	
		95		31		58		28		15	
19		( 100 )		( 35 )		( 54 )		( 29 )		( 16 )	
	58		31		36		9		8		
	74		26		38		10		8		
47	( 66 )		( 29 )		( 37 )		( 10 )		( 8 )		
		74		39		64		13		11	
		64		29		67		9		8	
48		( 69 )		( 34 )		( 66 )		( 11 )		( 10 )	
Judgement	-	-	-	-	-	-	-	-	-	-	
Specific Mutagenicity											
Positive Control	AF-2 ( 392 )	2-AA ( 498 )	NaN <sub>3</sub> ( 241 )	2-AA ( 279 )	AF-2 ( 337 )	2-AA ( 506 )	AF-2 ( 393 )	2-AA ( 186 )	9-AA ( 573 )	2-AA ( 114 )	