

$\alpha, \alpha'$ -Azobis (isobutyronitrile)  
(アゾビスイソブチロニトリル)

Chemical Name:	$\alpha, \alpha'$ -Azobis (isobutyronitrile)
Synonym	2,2'-Azobisisobutyronitrile
Molecular weight:	164.21
Melting point:	103°C
Boiling point:	°C
Chemical Structure	$  \begin{array}{c}  (\text{CH}_3)_2 - \text{C} - \text{N} = \text{N} - \text{C} - (\text{CH}_3)_2 \\    \qquad \qquad   \\  \text{CN} \qquad \qquad \text{CN}  \end{array}  $
CAS No:	78-67-1
MITI No:	(2)-1531
Source of Substance:	Tokyo Kasei Kogyo Co. Ltd
Lot. No.:	AU01
Purity:	extra pure reagent
Vehicle:	DMSO

Mutagenicity  
in Bacterial Test: Negative  
IARC Evaluation: not yet cited

Judgement  
Specific Mutagenicity  
Positive  
Control

Con. $\mu\text{g}/$ plate	Experimental Data											
	Number of Revertants/plate											
	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(174)	(192)	(25)	(13)	(24)	(25)	(21)	(32)	(14)	(18)	(11)	(12)
	133	146	23	3	21	14	20	31	10	11	8	9
100	(142)	(174)	(22)	(8)	(18)	(19)	(17)	(25)	(14)	(20)	(11)	(11)
	159	167	18	6	13	32	15	19	12	14	8	18
	138	180	19	5	16	24	30	18	7	15	4	18
200	(149)	(174)	(19)	(6)	(15)	(28)	(23)	(19)	(10)	(15)	(6)	(18)
	155	169	19	4	18	25	23	19	9	9	9	13
	137	182	21	8	16	24	23	18	16	16	12	21
500	(146)	(176)	(20)	(6)	(17)	(25)	(23)	(19)	(13)	(13)	(11)	(17)
	134	169	23	12	16	19	19	10	8	23	6	18
	140	194	28	12	11	23	13	21	14	9	10	19
1000	(137)	(182)	(26)	(12)	(14)	(21)	(16)	(16)	(11)	(16)	(8)	(19)
	155	171	31	7	6	28	12	27	18	9	3	17
	155	184	22	8	18	31	12	21	8	11	13	18
2000	(155)	(178)	(27)	(8)	(12)	(30)	(12)	(24)	(13)	(10)	(8)	(18)
	148	146	39	14	16	31	18	28	6	14	9	13
	160	203	43	9	19	28	19	33	12	16	11	16
5000	(154)	(175)	(41)	(12)	(18)	(30)	(19)	(31)	(9)	(15)	(10)	(15)
	149	196	35	22	24	31	14	27	3	9	13	16
	136	199	23	10	18	19	21	13	13	16	8	15
10000	(143)	(198)	(29)	(16)	(21)	(25)	(18)	(20)	(8)	(13)	(11)	(16)
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	AF2	2AA 0.5	NaN <sub>3</sub>	2AA	AF2	2AA 80	AF2	2AA	9AA	2AA	4NQO	2AA
	(1094)	(597)	(222)	(231)	(371)	(655)	(258)	(316)	(357)	(342)	(304)	(269)