

N,N'-Ethylenedi(stearamide)(N,N'-エチレンジ(ステアロアミド))Experimental Data-1

(B9707-1/2)

Chemical Name	: <u>N,N'-Ethylenedi(stearamide)</u>
Synonym	: <u>Octadecanamide, N,N'-1,2-ethanedivlbis-</u> <u>N,N'-Ethylenebis(stearamide)</u> <u>N,N'-エチレンビスオクタデカンアミド</u>
Molecular Weight	: 593.03
Melting Point	: 144-146°C[Aldrich]
Boiling Point	: -
Flashing Point	: -
Molecular Formula	: C ₃₈ H ₇₆ N ₂ O ₂
Chemical Structure	 CH ₃ (CH ₂) ₁₆ CONHCH ₂ CH ₂ NHCO(CH ₂) ₁₆ CH ₃
CAS No.	: 110-30-5
MITI No.	: (2)-831
ML No.	: -
Specified Chemical Substances	: -
Source of Substance	: Tokyo Kasei Kogyo Co., Ltd.
Lot No.	: GD01
Purity	: >99%
Vehicle	: Acetone

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 _{uvrA/pKM101}		TA98		TA1537	
Acetone	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(127)	(123)	(8)	(13)	(44)	(63)	(16)	(25)	(6)
	115	163	9	9	22	72	14	24	3	16
	127	164	13	7	38	54	11	25	8	10
1 .22	(121)	(164)	(11)	(8)	(30)	(63)	(13)	(25)	(6)	(13)
	128	137	11	9	43	62	13	11	5	7
	128	122	13	7	46	75	21	31	5	7
4 .88	(128)	(130)	(12)	(8)	(45)	(69)	(17)	(21)	(5)	(7)
	122	143	6	13	53	66	21	17	6	10
	126	146	10	9	52	56	13	24	10	6
19 .5	(124)	(145)	(8)	(11)	(53)	(61)	(17)	(21)	(8)	(8)
	129	141	10	9	47	66	8	21	3	10
	133	137	5	10	36	48	21	21	3	13
78 .1	(131)	(139)	(8)	(10)	(42)	(57)	(15)	(21)	(3)	(12)
	146	120	9	9	45	46	17	25	5	9
	145	141	6	11	44	50	16	17	2	4
313 †	(146)	(131)	(8)	(10)	(45)	(48)	(17)	(21)	(4)	(7)
	129	129	8	12	47	55	17	24	10	9
	125	128	5	8	41	60	13	16	5	9
1250 †	(127)	(129)	(7)	(10)	(44)	(58)	(15)	(20)	(8)	(9)
	121	130	8	9	35	60	11	26	6	6
	119	146	7	5	24	78	6	19	8	13
5000 †	(120)	(138)	(8)	(7)	(30)	(69)	(9)	(23)	(7)	(10)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (656)	2-AA (1191)	NaN ₃ (389)	2-AA (310)	AF-2 (1077)	2-AA (1195)	AF-2 (548)	2-AA (413)	9-AA (775)	2-AA (191)

† Test chemical was precipitated with and without S9mix.

Experimental Data-2

(B9707-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
Acetone	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(121)	(119)	(7)	(13)	(51)	(84)	(14)	(27)	(5)	(12)
313 †	97	108	10	6	44	77	15	16	7	12
	115 (106)	105 (107)	7 (9)	12 (9)	48 (46)	68 (73)	16 (16)	19 (18)	5 (6)	7 (10)
625 †	96	123	8	8	50	84	17	13	4	9
	111 (104)	112 (118)	7 (8)	12 (10)	56 (53)	67 (76)	10 (14)	27 (20)	3 (4)	6 (8)
1250 †	120	112	7	9	45	74	18	25	4	15
	113 (117)	128 (120)	6 (7)	11 (10)	62 (54)	79 (77)	15 (17)	25 (25)	7 (6)	8 (12)
2500 †	128	101	11	10	63	64	17	26	3	11
	117 (123)	102 (102)	7 (9)	11 (11)	51 (57)	64 (64)	15 (16)	21 (24)	3 (3)	14 (13)
5000 †	99	134	11	6	58	93	9	12	7	11
	101 (100)	132 (133)	9 (10)	6 (6)	42 (50)	84 (89)	8 (9)	15 (14)	4 (6)	11 (11)
Judgement	—	—	—	—	—	—	—	—	—	—
Specific Mutagenicity										
Positive Control	AF-2 (538)	2-AA (1309)	NaN ₃ (450)	2-AA (360)	AF-2 (888)	2-AA (1130)	AF-2 (523)	2-AA (460)	9-AA (642)	2-AA (215)