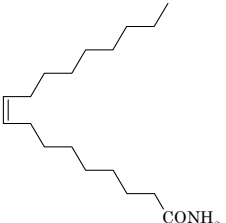


9-Octadecenamide (9-オクタデセンアミド)

Chemical Name	; 9-Octadecenamide
Synonym	; Oleamide Oleic acid amide <i>cis</i> -9-Octadecenamide (9 <i>Z</i>)-9-Octadecenamide <i>cis</i> -9,10-Octadecenoamide Oleylamide
Molecular Weight	; 281.48
Melting Point	; 75-76°C[CHCD]
Boiling Point	; -
Flashing Point	; -
Molecular Formula	; C ₁₈ H ₃₅ NO
Chemical Structure;	
CAS No.	; 301-02-0
MITI No.	; (2)-976
ML No.	; -
Specified Chemical Substances;	-
Source of Substance;	Sigma-Aldrich Co.
Lot No.	; 121K5202
Purity	; >99%
Vehicle	; DMSO

Mutagenicity in Bacterial Test; Negative

IARC Evaluation ; Not yet cited

Conc. µg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2 <i>uvrA</i> /pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
		(98)	(116)	(9)	(7)	(71)	(98)	(11)	(25)	(8)
1 .22	113 (105)	108 (110)	14 (12)	7 (8)	72 (76)	104 (102)	9 (11)	25 (26)	6 (8)	8 (6)
4 .88	119 (118)	107 (109)	5 (7)	9 (8)	78 (78)	94 (115)	13 (13)	36 (28)	10 (6)	6 (10)
19 .5	109 (101)	127 (117)	13 (12)	6 (8)	70 (70)	100 (97)	10 (13)	28 (26)	8 (8)	7 (8)
78 .1	106 (109)	138 (122)	6 (4)	10 (9)	72 (74)	99 (100)	15 (15)	23 (22)	3 (6)	8 (8)
313 †	94 (97)	103 (102)	4 (4)	7 (8)	65 (71)	135 (139)	10 (11)	14 (22)	4 (4)	3 (3)
1250 †	97 (94)	115 (110)	4 (6)	6 (7)	56 (62)	114 (116)	12 (11)	15 (16)	3 (5)	3 (3)
5000 †	89 (94)	89 (100)	8 (8)	4 (4)	57 (61)	92 (101)	10 (9)	15 (16)	3 (3)	3 (7)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (651)	2-AA (1513)	NaN ₃ (311)	2-AA (237)	AF-2 (1527)	2-AA (917)	AF-2 (330)	2-AA (408)	9-AA (293)	2-AA (216)

† Test chemical was precipitated with and without S9mix.

Experimental Data-2

(B0302-2/2)

Conc. µg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(98)	(108)	(11)	(9)	(64)	(91)	(16)	(19)	(7)	(7)
313 †	127	100	10	6	80	113	10	20	2	6
	105	93	5	4	98	138	8	17	4	7
625 †	(116)	(97)	(8)	(5)	(89)	(126)	(9)	(19)	(3)	(7)
	91	101	6	4	81	108	16	12	3	4
1250 †	118	106	5	2	59	110	13	20	3	4
	(105)	(104)	(6)	(3)	(70)	(109)	(15)	(16)	(3)	(4)
2500 †	77	105	2	4	61	118	11	25	2	5
	107	83	6	6	70	102	8	23	1	3
5000 †	(92)	(94)	(4)	(5)	(66)	(110)	(10)	(24)	(2)	(4)
	92	101	6	5	73	95	12	21	2	3
Judgement	94	107	4	6	56	108	18	17	2	3
	(93)	(104)	(5)	(6)	(65)	(102)	(15)	(19)	(2)	(3)
Specific Mutagenicity	83	91	4	8	45	85	14	22	1	4
	99	109	1	4	61	97	18	16	3	6
Positive Control	(91)	(100)	(3)	(6)	(53)	(91)	(16)	(19)	(2)	(5)
	—	—	—	—	—	—	—	—	—	—
AF-2	2-AA	NaN ₃	2-AA	AF-2	2-AA	AF-2	2-AA	9-AA	2-AA	
(676)	(1175)	(312)	(233)	(860)	(1051)	(341)	(376)	(314)	(207)	

† Test chemical was precipitated with and without S9mix.