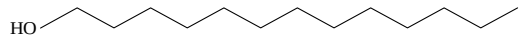
Chemical Name ; 1-Tridecanol

Synonym ; Tridecan-1-ol
Tridecyl alcohol
n-Tridecyl alcohol
トリデシルアルコール

Molecular Weight ; 200.36
Melting Point ; 32.5-33.5℃[CHCD]
Boiling Point ; 274℃ [CHCD]
Flashing Point ; 121℃(o.c.) [CHCD]
Molecular Formula ; $C_{13}H_{28}O$

Chemical Structure



CAS No. ; 112-70-9
MITI No. ; (2)-217
ML No. ; −
Specified Chemical Substances ; −

Source of Substance; Tokyo Kasei Kogyo Co., Ltd.
Lot No. ; FBW01
Purity ; −

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*uvr*A/pKM101		TA98		TA1537	
	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+
DMSO	(139)	(142)	(9)	(12)	(53)	(77)	(19)	(23)	(7)	(11)
	116	134	9	11	48	90	30	21	3	15
	143	119	8	9	76	91	13	36	7	16
0 .610	(130)	(127)	(9)	(10)	(62)	(91)	(22)	(29)	(5)	(16)
	119	131	5	13	63	91	18	15	6	13
	131	126	8	11	56	82	23	23	7	9
2 .44	(125)	(129)	(7)	(12)	(60)	(87)	(21)	(19)	(7)	(11)
	82 *	129	7 *	10	56	90	0 *	17	3 *	11
	83 *	121	6 *	6	59	121	0 *	18	6 *	9
9 .77	(83 *)	(125)	(7 *)	(8)	(58)	(106)	(0 *)	(18)	(5 *)	(10)
	0 *	124	0 *	8	56	90	0 *	20	0 *	7
	0 *	157	0 *	13	60	93	0 *	20	0 *	11
39 .1	(0 *)	(141)	(0 *)	(11)	(58)	(92)	(0 *)	(20)	(0 *)	(9)
	0 *	128 *	0 *	13 *	45	72	0 *	16 *	0 *	14 *
	0 *	115 *	0 *	10 *	47	83	0 *	23 *	0 *	8 *
156	(0 *)	(122 *)	(0 *)	(12 *)	(46)	(78)	(0 *)	(20 *)	(0 *)	(11 *)
	0 *	69 *	0 *	3 *	23 *	47	0 *	13 *	0 *	5 *
	0 *	56 *	0 *	6 *	28 *	57	0 *	8 *	0 *	7 *
625	(0 *)	(63 *)	(0 *)	(5 *)	(26 *)	(52)	(0 *)	(11 *)	(0 *)	(6 *)
	0 *	52 *	0 *	9 *	43 *	81	0 *	24 *	0 *	6 *
	0 *	63 *	0 *	8 *	34 *	67	0 *	11 *	0 *	10 *
2500	(0 *)	(58 *)	(0 *)	(9 *)	(39 *)	(74)	(0 *)	(18 *)	(0 *)	(8 *)
	0 *	47 *	0 *	2 *	29 *	60	0 *	8 *	0 *	5 *
	0 *	62 *	0 *	7 *	22 *	63	0 *	10 *	0 *	2 *
10000 †	(0 *)	(55 *)	(0 *)	(5 *)	(26 *)	(62)	(0 *)	(9 *)	(0 *)	(4 *)
Judgement	−	−	−	−	−	−	−	−	−	−
Specific Mutagenicity										
Positive Control	AF-2 (703)	2-AA (1228)	NaN_3 (500)	2-AA (318)	AF-2 (1401)	2-AA (1155)	AF-2 (527)	2-AA (457)	9-AA (700)	2-AA (240)

* Growth inhibitation was observed.
† Test chemical was precipitated with and without S9mix.

Experimental Data-2

Conc. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2*uvr*A/pKM101		TA98		TA1537	
	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+
DMSO	(112)	(116)	(8)	(10)	(38)	(71)	(16)	(22)	(5)	(9)
	123		7				16		5	
	116		8				14		7	
0 .153	(120)		(8)				(15)		(6)	
	135		6				15		3	
	104		7				14		8	
0 .305	(120)		(7)				(15)		(6)	
	133		7				21		5	
	121		5				15		6	
0 .610	(127)		(6)				(18)		(6)	
	130		8				14		8	
	128		13				9		3	
1 .22	(129)		(11)				(12)		(6)	
	111	111	3	11			20	29	5	8
	137	128	5	7			13	18	5	10
2 .44	(124)	(120)	(4)	(9)			(17)	(24)	(5)	(9)
	98 *	124	3 *	10			18 *	20	6 *	6
	99 *	127	2 *	10			5 *	18	6 *	8
4 .88	(99 *)	(126)	(3 *)	(10)			(12 *)	(19)	(6 *)	(7)
	108 *	129	8 *	6	28		0 *	29	2 *	9
	106 *	114	6 *	13	44		0 *	25	6 *	8
9 .77	(107 *)	(122)	(7 *)	(10)	(36)		(0 *)	(27)	(4 *)	(9)
		135		9	55			29		8
		128		6	56			26		6
19 .5		(132)		(8)	(56)			(28)		(7)
		131		8	59			25		8
		143		11	47			23		11
39 .1		(137)		(10)	(53)			(24)		(10)
		146		7	39			23		7
		124		7	52			21		6
78 .1		(135)		(7)	(46)			(22)		(7)
		114 *		7 *	38	70		21 *		2 *
		144 *		5 *	24	75		20 *		10 *
156		(129 *)		(6 *)	(31)	(73)		(21 *)		(6 *)
					38 *	66				
					32 *	63				
313					(35 *)	(65)				
					23 *	67				
					25 *	55				
625					(24 *)	(61)				
						57				
						54				
1250						(56)				
						59				
						49				
2500						(54)				
						61				
						47				
5000 †						(54)				
						50				
						56				
10000 †						(53)				
Judgement	−	−	−	−	−	−	−	−	−	−
Specific Mutagenicity										
Positive Control	AF-2 (707)	2-AA (1339)	NaN_3 (451)	2-AA (293)	AF-2 (978)	2-AA (997)	AF-2 (533)	2-AA (453)	9-AA (571)	2-AA (232)

Experimental Data-3 (B9817-2/2)

Conc. μg/plate	Number of Revertants/plate			
	Base-substitution		Frame-shift	
	TA100	TA1535	TA98	TA1537
	S9−	S9−	S9−	S9−
DMSO	(134)	(8)	(16)	(5)
	120	11	8	3
	108	10	17	7
0 .153	(114)	(11)	(13)	(5)
	130	9	11	5
	138	3	13	3
0 .305	(134)	(6)	(12)	(4)
	113	13	16	2
	144	5	16	7
0 .610	(129)	(9)	(16)	(5)
	119	6	10	3
	127	9	15	3
1 .22	(123)	(8)	(13)	(3)
	105	5	15	5
	115	6	14	6
2 .44	(110)	(6)	(15)	(6)
	93 *	3 *	17 *	6 *
	98 *	5 *	15 *	3 *
4 .88	(96 *)	(4 *)	(16 *)	(5 *)
Judgement	−	−	−	−
Specific Mutagenicity				
Positive Control	AF-2 (708)	NaN_3 (432)	AF-2 (505)	9-AA (682)

* Growth inhibition was observed.
† Test chemical was precipitated with S9mix.