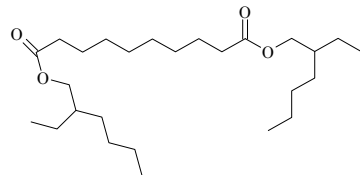


Bis(2-ethylhexyl) sebacate (デカン二酸ビス(2-エチルヘキシル))

Chemical Name ; Bis(2-ethylhexyl) sebacate
 Synonym ; Bis(2-ethylhexyl) decanedioate
Di(2-ethylhexyl)sebacate
Decanedioic acid, bis(2-ethylhexyl) ester
Sebacic acid, bis(2-ethylhexyl) ester
 セバシン酸ジ'オクチル

Molecular Weight ; 426.68
 Melting Point ; -48°C [CHCD]
 Boiling Point ; 256°C(5mmHg)[CHCD]
 Flashing Point ; >230°C [Aldrich]
 Molecular Formular; C₂₆H₅₀O₄

Chemical Structure:



CAS No. ; 122-62-3
 MITI No. ; (2)-2569, (2)-879
 ML No. ; -
 Specified Chemical Substances; -

Source of Substance; Junsei Chemical Co., Ltd.
 Lot No. ; 8J1592
 Purity ; 98.6%

Vehicle ; DMSO

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+
		(107)	(119)	(10)	(13)	(78)	(131)	(17)	(21)	(7)
	98	82	7	8	68	98	13	21	8	15
	117	105	7	10	66	98	11	14	5	8
1 .22	(108)	(94)	(7)	(9)	(67)	(98)	(12)	(18)	(7)	(12)
	82	112	8	14	66	126	14	16	5	7
	98	101	10	16	79	96	11	20	8	5
4 .88	(90)	(107)	(9)	(15)	(73)	(111)	(13)	(18)	(7)	(6)
	138	137	14	10	77	92	14	22	9	7
	108	113	7	14	83	108	16	21	6	14
19 .5	(123)	(125)	(11)	(12)	(80)	(100)	(15)	(22)	(8)	(11)
	101	94	7	16	74	117	8	20	14	8
	94	116	14	6	70	145	10	17	6	8
78 .1	(98)	(105)	(11)	(11)	(72)	(131)	(9)	(19)	(10)	(8)
	100	109	14	3	79	128	13	10	7	8
	105	130	7	13	68	123	17	14	5	15
313	(103)	(120)	(11)	(8)	(74)	(126)	(15)	(12)	(6)	(12)
	105	102	9	15	63	133	9	26	9	7
	101	93	7	6	74	143	13	24	11	9
1250	(103)	(98)	(8)	(11)	(69)	(138)	(11)	(25)	(10)	(8)
	90	94	8	8	84	148	14	21	16	11
	111	104	9	11	76	102	13	14	6	9
5000	(101)	(99)	(9)	(10)	(80)	(125)	(14)	(18)	(11)	(10)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 (623)	2-AA (1315)	NaN ₃ (327)	2-AA (252)	AF-2 (1452)	2-AA (1072)	AF-2 (354)	2-AA (462)	9-AA (459)	2-AA (207)

Mutagenicity in Bacterial Test; Negative

IARC Evaluation ; Not yet cited

Experimental Data-2

Conc. µg/plate	Number of Revertants/plate							
	Base-substitution				Frame-shift			
	TA100		WP2uvrA/pKM101		TA98		TA1537	
DMSO	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	(123)	(125)	(58)	(94)	(20)	(24)	(6)	(9)
313	113	127	75	87	16	25	8	15
	(122)	(128)	(69)	(90)	(15)	(25)	(5)	(12)
625	124	138	70	86	13	24	6	7
	(124)	(137)	(62)	(93)	(18)	(23)	(5)	(8)
1250	136	121	55	98	21	24	5	6
	(119)	(135)	(57)	(98)	(22)	(27)	(4)	(5)
2500	129	127	52	107	17	38	6	7
	(126)	(127)	(58)	(101)	(17)	(29)	(8)	(6)
5000	136	124	70	94	21	28	5	13
	(132)	(124)	(62)	(96)	(20)	(23)	(4)	(11)
Judgement	-	-	-	-	-	-	-	-
Specific Mutagenicity								
Positive Control	AF-2 (695)	2-AA (1240)	AF-2 (1107)	2-AA (880)	AF-2 (427)	2-AA (442)	9-AA (462)	2-AA (171)

Experimental Data-3 (B0304-2/2)

Conc. µg/plate	Number of Revertants/plate	
	Base-substitution	
	TA1535	
DMSO	S9-	S9+
	(8)	(8)
313	8	6
	(8)	(8)
625	8	9
	(8)	(13)
1250	9	7
	(9)	(6)
2500	10	8
	(8)	(8)
5000	10	10
	(13)	(10)
Judgement	-	-
Specific Mutagenicity		
Positive Control	AF-2 (330)	2-AA (247)