

Ethyl acetoacetate (アセト酢酸エチル)

Chemical Name: Ethyl acetoacetate
Synonym
Molecular weight: 130.14
Melting point: -44°C
Boiling point: 180.4°C (80mmHg : 100°C)
Flashing point: 85°C
Chemical Structure
<chem>CH3COCH2COOC2H5</chem>
CAS No: 141-97-9
MITI No: (2)-1475
Source of Substance: Wako Pure Chem. Ind., Ltd.
Lot.No. : EPL2921
Purity:
Vehicle: DMSO

Mutagenicity  
in Bacterial Test: Negative

IARC Evaluation: not yet cited

Judgement  
Specific Mutagenicity  
Positive  
Control

Experimental Data

Con. μg/ plate	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	(96)	(112)	(19)	(12)	(50)	(51)	(14)	(26)	(7)	(10)	(16)	(26)
	97	119	23	16	55	54	9	24	8	8	15	27
20	(98)	(123)	(22)	(13)	(55)	(57)	(11)	(25)	(6)	(7)	(15)	(28)
	96	101	15	8	55	51	11	30	8	11	13	23
	101	127	23	20	48	55	9	32	7	10	20	27
50	(99)	(114)	(19)	(14)	(52)	(53)	(10)	(31)	(8)	(11)	(17)	(25)
	88	124	14	9	50	47	17	34	6	9	13	28
	91	132	17	11	52	50	18	20	5	8	15	27
100	(90)	(128)	(16)	(10)	(51)	(49)	(18)	(27)	(6)	(9)	(14)	(28)
	100	105	13	9	46	63	12	24	6	9	20	24
	114	100	14	8	53	47	10	28	5	11	14	26
200	(107)	(103)	(14)	(9)	(50)	(55)	(12)	(26)	(6)	(10)	(17)	(25)
	95	90	19	9	60	59	15	23	4	11	19	32
	94	93	15	10	67	57	16	30	4	6	19	25
500	(95)	(92)	(17)	(10)	(64)	(58)	(16)	(27)	(4)	(9)	(19)	(29)
	97	103	12	14	61	51	14	25	4	7	18	30
	86	93	13	7	71	60	9	28	9	14	20	26
1000	(92)	(98)	(13)	(11)	(66)	(56)	(12)	(27)	(7)	(11)	(19)	(28)
	76	101	15	10	51	45	15	21	6	9	13	21
	97	105	12	14	77	51	11	32	9	9	13	24
2000	(87)	(103)	(14)	(12)	(64)	(48)	(13)	(27)	(8)	(9)	(13)	(23)
	87	102	10	10	37	58	13	23	3	10	16	29
	103	96	18	10	49	67	12	32	7	7	16	23
5000	(95)	(99)	(14)	(10)	(43)	(63)	(13)	(28)	(5)	(9)	(16)	(26)
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	AF2	2AA 0.5	NaN <sub>3</sub>	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(383)	(461)	(232)	(262)	(407)	(855)	(332)	(584)	(746)	(167)	(434)	(572)