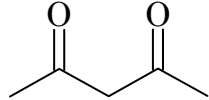


2,4-Pentanedione (2,4-ペンタンジオン)

Chemical Name	; 2,4-Pentanedione
Synonym	; Acetylacetone 2,4-Dioxopentane Pentane-2,4-dione Diacethylmethane アセチルアセトン
Molecular Weight	; 100.12
Melting Point	; -23 °C[Merck]
Boiling Point	; 140.5°C[Merck]
Flashing Point	; 34 °C[CHCD]
Molecular Formular	; C ₅ H ₈ O ₂
Chemical Structure;	
CAS No.	; 123-54-6
MITI No.	; (2)-562
ML No.	; -
Specified Chemical Substances;	-
Source of Substance;	Wako Pure Chemical Industries Ltd.
Lot No.	; PKG5191
Purity	; 99.9%
Vehicle	; DMSO

Mutagenicity in Bacterial Test; Positive

IARC Evaluation ; Not yet cited

Experimental Data-1

Conc. µg/plate	Number of Revertants/plate	
	Base-substitution	
	WP2uvrA/pKM101	
DMSO	S9-	S9+
		(68)
	71	92
	100	96
1 .22	(86)	(94)
	79	112
	67	115
4 .88	(73)	(114)
	98	136
	93	111
19 .5	(96)	(124)
	93	171
	117	172
78 .1	(105)	(172)
	138	170
	124	226
313	(131)	(198)
	109	144
	109	144
1250	(109)	(144)
	74	79
	71	90
5000	(73)	(85)
Judgement	-	+
Specific Mutagenicity		329
Positive Control	AF-2 (1097)	2-AA (678)

Experimental Data-2

(B0409-1/1)

Conc. µg/plate	Number of Revertants/plate	
	Base-substitution	
	WP2uvrA/pKM101	
DMSO	S9-	S9+
		(66)
	89	137
	98	121
39 .1	(94)	(129)
	81	131
	120	172
78 .1	(101)	(152)
	104	174
	112	171
156	(108)	(173)
	117	200
	111	192
313	(114)	(196)
	116	177
	101	194
625	(109)	(186)
	79	152
	100	164
1250	(90)	(158)
	71	91
	75	130
2500	(73)	(111)
	47	62
	57	72
5000	(52)	(67)
Judgement	-	+
Specific Mutagenicity		326
Positive Control	AF-2 (998)	2-AA (679)