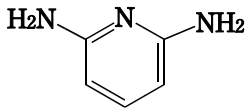
Chemical Name;2,6-Diaminopyridine
Synonym ;2,6-Pyridinediamine
2,6-ﾋﾟﾘｼﾞﾝｼﾞｱﾐﾝ

Molecular Weight ; 109.13
Melting Point ; 121.5 ℃ [CHCD]
120 - 122 ℃ [Aldrich]
Boiling Point ; 148 -150 ℃(5mmHg) [CHCD]
Flashing Point ; — ℃
Molecular Formula; $C_5H_7N_3$

Chemical Structure



CAS No. ; 141-86-6
MITI No. ; (5)-726
ML No. ; —
Specified Chemical Substances; —

Source of Substance; Tokyo Kasei Kogyo Co.,Ltd.
Lot No. ; FHC02
Purity ; 98 %

Vehicle ; Distilled H_2O

Mutagenicity in Bacterial Test ; **Positive**

IARC Evaluation ; not yet cited

Conc. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2*uvrA*		TA98		TA1537	
	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+
H_2O	(143)	(135)	(8)	(11)	(36)	(43)	(18)	(23)	(13)	(17)
	134	135	10	10	48	43	10	25	20	31
	144	143	10	11	44	55	14	26	16	31
0.0763	(139)	(139)	(10)	(11)	(46)	(49)	(12)	(26)	(18)	(31)
	136	165	11	16	44	46	28	17	24	26
	150	115	11	8	44	61	13	30	21	26
0.305	(143)	(140)	(11)	(12)	(44)	(54)	(21)	(24)	(23)	(26)
	117	119	5	11	36	52	21	23	20	25
	149	138	9	11	47	47	15	37	22	21
1.22	(133)	(129)	(7)	(11)	(42)	(50)	(18)	(30)	(21)	(23)
	157	151	8	13	55	45	24	18	22	15
	126	135	13	11	51	38	14	29	15	28
4.88	(142)	(143)	(11)	(12)	(53)	(42)	(19)	(24)	(19)	(22)
	151	149	11	14	40	40	20	39	18	21
	139	129	9	11	46	45	22	30	25	28
19.5	(145)	(139)	(10)	(13)	(43)	(43)	(21)	(35)	(22)	(25)
	135	142	14	10	56	62	13	31	14	23
	134	105	8	14	39	40	18	30	20	25
78.1	(135)	(124)	(11)	(12)	(48)	(51)	(16)	(31)	(17)	(24)
	121	120	7	6	57	52	28	29	30	24
	126	128	14	15	38	39	20	31	17	26
313	(124)	(124)	(11)	(11)	(48)	(46)	(24)	(30)	(24)	(25)
	115	131	3	6	44	45	15	24	25	36
	138	131	13	16	45	51	9	24	26	34
1250	(127)	(131)	(8)	(11)	(45)	(48)	(12)	(24)	(26)	(35)
	115	142	11*	10	49	51	21	36	25*	46
	116	155	11*	9	29	49	28	41	26*	37
5000	(116)	(149)	(11*)	(10)	(39)	(50)	(25)	(39)	(26*)	(42)
Judgement	−	−	−	−	−	−	−	−	+	+
Specific Mutagenicity									**10.4**	**14.4**
Positive Control	AF-2 (879)	2-AA (1057)	NaN_3 (250)	2-AA (326)	AF-2 (204)	2-AA (1098)	AF-2 (542)	2-AA (319)	9-AA (557)	2-AA (180)

Conc. μg/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2*uvrA*		TA98		TA1537	
	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+	S9−	S9+
H_2O	(126)	(119)	(9)	(12)	(26)	(27)	(18)	(27)	(6)	(13)
	128	162	9	14	21	18	15	25	7	13
	127	102	5	10	20	24	10	25	13	14
78.1	(128)	(132)	(7)	(12)	(21)	(21)	(13)	(25)	(10)	(14)
	113	119	13	18	17	18	16	23	7	14
	128	135	10	10	22	29	22	25	6	14
156	(121)	(127)	(12)	(14)	(20)	(24)	(19)	(24)	(7)	(14)
	134	141	10	8	26	25	15	22	12	15
	133	143	6	16	25	29	23	32	10	17
313	(134)	(142)	(8)	(12)	(26)	(27)	(19)	(27)	(11)	(16)
	120	159	7	16	16	18	25	25	9	15
	117	155	6	10	17	33	15	25	5	17
625	(119)	(157)	(7)	(13)	(17)	(26)	(20)	(25)	(7)	(16)
	108	137	8	14	21	39	10	39	8	17
	75	144	10	13	28	25	15	28	6	17
1250	(92)	(141)	(9)	(14)	(25)	(32)	(13)	(34)	(7)	(17)
	93	150	5	8	18	32	13	38	6	20
	108	139	6	11	21	30	15	34	9	23
2500	(101)	(145)	(6)	(10)	(20)	(31)	(14)	(36)	(8)	(22)
	86	129	6*	10	24	31	5	47	11*	25
	85	139	3*	11	18	30	15	49	11*	34
5000	(86)	(134)	(5*)	(11)	(21)	(31)	(10)	(48)	(11*)	(30)
Judgement	−	−	−	−	−	−	−	−	−	+
Specific Mutagenicity										**3.40**
Positive Control	AF-2 (870)	2-AA (1232)	NaN_3 (330)	2-AA (264)	AF-2 (214)	2-AA (980)	AF-2 (406)	2-AA (314)	9-AA (511)	2-AA (208)