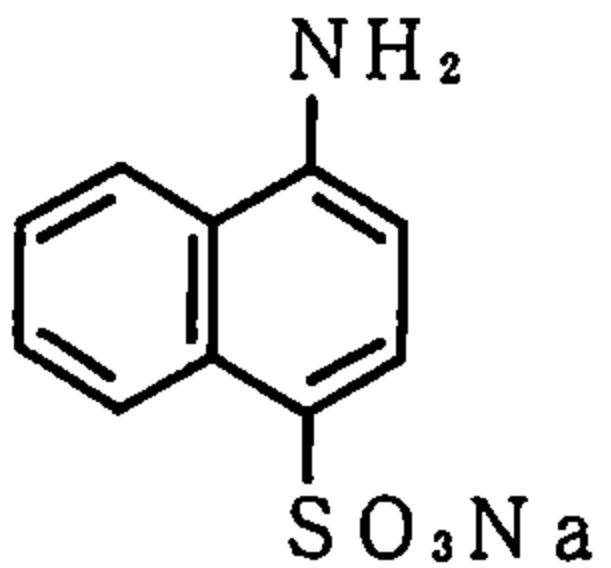


Sodium 1-naphthylamine-4-sulfonate

(ナフチオン酸ソーダ)

Chemical Name:	Sodium 1-naphthylamine-4-sulfonate
Synonym	Sodium naphthionate Sodium 4-amino-1-naphthalenesulfonate
Molecular weight:	245.24
Melting point:	°C
Boiling point:	°C
Chemical Structure	
CAS No:	130-13-2
MITI No:	(4)-492
Source of Substance:	Tokyo Kasei Kogyo Co. Ltd
Lot. No.:	AN01
Purity:	extra pure reagent
Vehicle:	H ₂ O

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+	
H ₂ O	(98)	(87)	(14)	(13)	(36)	(30)	(19)	(25)	(12)	(15)	(12)	(13)	
	77	113	16	14	33	35	18	18	5	18	11	13	
	77	92	14	11	37	34	27	31	5	14	15	11	
20	(77)	(103)	(15)	(13)	(35)	(35)	(23)	(25)	(5)	(16)	(13)	(12)	
	82	104	15	15	28	34	18	27	13	12	15	10	
	76	89	17	10	37	28	16	22	11	11	12	13	
50	(79)	(97)	(16)	(13)	(33)	(31)	(17)	(25)	(12)	(12)	(14)	(12)	
	78	95	14	12	25	43	12	25	7	9	11	12	
	86	90	18	9	43	34	21	21	11	12	13	14	
100	(82)	(93)	(16)	(11)	(34)	(39)	(17)	(23)	(9)	(11)	(12)	(13)	
	80	104	16	11	39	37	32	27	12	4	12	14	
	74	106	15	12	25	45	29	21	7	15	16	10	
200	(77)	(105)	(16)	(12)	(32)	(41)	(31)	(24)	(10)	(10)	(14)	(12)	
	80	90	13	12	38	49	27	22	10	17	8	15	
	86	77	16	14	37	34	12	21	7	9	9	9	
500	(83)	(84)	(15)	(13)	(38)	(42)	(20)	(22)	(9)	(13)	(9)	(12)	
	88	91	14	12	24	41	19	22	11	10	8	12	
	83	88	10	13	40	30	18	21	9	11	10	12	
1000	(86)	(90)	(12)	(13)	(32)	(36)	(19)	(22)	(10)	(11)	(9)	(12)	
	79	76	14	11	31	36	31	25	9	11	14	11	
	79	97	11	14	43	32	23	19	8	17	12	14	
2000	(79)	(87)	(13)	(13)	(37)	(34)	(27)	(22)	(9)	(14)	(13)	(13)	
	62	95	19	12	29	31	32	24	7	13	8	18	
	83	95	16	14	25	38	24	13	11	6	9	16	
5000	(73)	(95)	(18)	(13)	(27)	(35)	(28)	(19)	(9)	(10)	(9)	(17)	
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Judgement													
Specific Mutagenicity													
Positive	AF2	2AA	0.5	NaN ₃	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
Control	(479)	(663)	(246)	(103)	(206)	(608)	(285)	(423)	(927)	(431)	(384)	(301)	