

**Surveyed Chemical Substances and their Detected Levels in the Environment  
(A Cumulative List for Fiscal Year 1974 - 1998)**

**Surveyed Chemical Substances and their Detected Levels in the Environment (A Cumulative List for Fiscal Year 1974 - 2000)**

A/B: Number of detections / Number of samples; C/D: Number of detected stations / Number of sampling stations;

Unit: Water ng/ml; Sediment ug/g-dry; Fishes ug/g-wet; Air ppb or ng/m3 at 20degreeC 1atm

#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#						
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton										
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection							
1	acrylamide	79-06-1	1975	0/95		---	(1)																			
			1991	11/153		0.05 - 0.1	(0.05)	20/150		0.00052 - 0.003	(0.0005)	0/147		---	(0.0013)											1
			1998	0/33	0/11	---	(0.15)	0/30	0/10	---	(0.009)															
2	ethyl acrylate	140-88-5	1980	0/51		---	(0.3 - 50)	0/51		---	(0.0041 - 0.12)															2
3	2-ethylhexylacrylate	103-11-7	1980	0/51		---	(1.1 - 12)	0/24		---	(0.04 - 0.13)															3
4	butyl acrylate	141-32-2	1980	0/51		---	(0.7 - 30)	0/51		---	(0.0080 - 0.07)															4
5	methyl acrylate	96-33-3	1980	0/51		---	(0.6 - 50)	0/51		---	(0.0083 - 0.12)															5
6	acrylonitrile	107-13-1	1977	0/ 9		---	(20 - 50)	0/ 9		---	(0.4 - 0.5)															
			1987	0/75		---	(2)	4/66		0.014 - 0.114	(0.007)							A 16/65				42 - 2,400ng/m3	(40)		6	
			1991															A 15/40				46 - 390ng/m3	(40)			
			1992	0/162		---	(2.2)	8/151		0.007 - 0.016	(0.007)	0/144		---	(0.01)											
7	acrolein	107-02-8	1978	0/21		---	(7 - 10)	0/15		---	(0.02 - 0.1)															7
			1987	0/75		---	(1.9)											A 0/61				---	ng/m3	(800)		
8	adipic acid	124-04-9	1985	0/27		---	(2)	6/27		0.07 - 0.41	(0.03)															8
9	diisodecyl adipate	6938-94-9	1978	0/30		---	(0.8 - 100)	0/30		---	(0.04 - 5)															9
10	octyl adipate	103-23-1	1978	0/30		---	(0.4 - 25)	0/30		---	(0.02 - 1)															
			1984															A 47/72				0.23 - 16.7ng/m3	(0.1 - 0.61)		10	
			1995	0/33		---	(0.7)	11/29		0.016 - 0.1	(0.012)							A 31/41				1.0 - 22ng/m3	(1)			
			1998															A 26/33	11/12			1 - 26ng/m3	(1)			
11	dibutyl adipate	105-99-7	1999	0/36	0/12	—	(0.054)	2/36	1/12	0.022~0.023	(0.021)															11
12	dibuthyldiglycol adipate	141-17-3	1978	0/30		---	(0.8 - 50)	0/30		---	(0.04 - 2)															12
13	adiponitrile	111-69-3	1978	0/21		---	(10)	0/21		---	(0.1 - 0.3)															13
14	azinphosmethyl	86-50-0	1993															A 0/24				---	ng/m3	(21)		14

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton									
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection						
15	acetaldehyde	75-07-0	1977	0/6		---	(10)	3/6		2 - 4	(2.5)														
			1987	0/75		---	(1)									A 43/57		930 - 22,000ng/m <sup>3</sup>	(800)						
			1995	0/33		---	(1)									A 46/47		1,80 - 45,000ng/m <sup>3</sup>	(500)						
16	acetonitrile	75-05-8	1977	0/9		---	(120 - 200)	0/9		---	(2 - 24)														
			1987	0/72		---	(3)	11/60		0.021 - 0.54	(0.021)					A 44/70		210 - 42,000ng/m <sup>3</sup>	(200)						
			1991													A 33/51		200 - 3,700ng/m <sup>3</sup>	(200)						
			1992	15/147			1.1 - 7.4	(1)	25/155		0.03 - 1.9	(0.03)													
17	acetone	67-64-1	1995											A 49/49		150 - 31,000ng/m <sup>3</sup>	(2)								
18	acenaphthylene	208-96-8	1983	0/33		---	(0.06 - 0.4)	13/33		0.008 - 0.053	(0.008 - 0.041)														
			1984	4/138		0.08 - 1.3	(0.002 - 1)	63/138		0.0007 - 0.671	(0.00006 - 0.088)	14/138		0.0008 - 0.024	(0.0002 - 0.05)										
19	acenaphthene	83-32-9	1983	0/33		---	(0.09 - 0.4)	13/33		0.008 - 0.13	(0.008 - 0.041)														
			1984	3/138		0.05 - 0.1	(0.001 - 1)	58/138		0.00004 - 0.084	(0.00004 - 0.088)	15/138		0.001 - 0.50	(0.0001 - 0.05)										
			1999	1/39	1/13	0.012	(0.011)	35/39	12/13	0.00062~0.24	(0.00045)	11/39	6/13	0.00081~0.0047	(0.00077)										
20	acephate	30560-19-1	1993	0/30		---	(0.2)	0/30		---	(0.02)	0/30		---	(0.01)										
21	azobisisobutyronitrile	78-67-1	1979	0/15		---	(10)	0/15		---	(0.1)														
22	o-anisidine	90-04-0	1976	6/68		0.2 - 1.3	(0.2 - 0.8)	27/68		0.003 - 0.079	(0.003 - 0.004)														
			1990	2/48		0.02 - 0.027	(0.02)	3/41		0.0067 - 0.0073	(0.005)	0/54		---	(0.002)	A 0/51		---	ng/m <sup>3</sup>	(500)					
23	m-anisidine	536-90-3	1976	3/68		0.016 - 0.028	(0.01 - 0.2)	6/68		0.0004 - 0.018	(0.0002 - 0.0016)														
			1990	5/48		0.02 - 0.058	(0.02)	0/57		---	(0.02)	1/54		0.0046	(0.002)	A 0/51		---	ng/m <sup>3</sup>	(500)					
24	p-anisidine	104-94-9	1976	4/68		0.06 - 0.72	(0.06 - 0.2)	12/68		0.001 - 0.006	(0.0007 - 0.004)														
			1990	0/57		---	(0.4)	0/54		---	(0.017)	0/54		---	(0.02)	A 0/51		---	ng/m <sup>3</sup>	(1,500)					
25	aniline	62-53-3	1976	40/68		0.02 - 28	(0.04 - 0.2)	48/68		0.0007 - 0.50	(0.0008)														
			1990	33/104		0.02 - 0.33	(0.02)	81/116		0.003 - 0.24	(0.002)	27/89		0.001 - 0.0077	(0.001)	A 1/48		480ng/m <sup>3</sup>	(150)						
			1997													A 1/42		18ng/m <sup>3</sup>	(15)						
			1998	1/141	1/47	0.074	(0.06)	95/120	36/43	0.0021 - 0.21	(0.002)														
26	1-aminoanthraquinone	82-45-1	1985	0/27		---	(0.2)	1/21		0.022	(0.02)														
27	2-aminoanthraquinone	117-79-3	1985	0/27		---	(0.6)	0/18		---	(0.04)														

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton							
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection				
28	2-amino-5-chloro-4-methylbenzenesulfonic acid	88-53-9	1980	0/24		---	(10 - 200)	0/24		---	(0.5 - 11)											28	
29	3-amino-1,2,4-triazole	61-82-5	1984	0/24		---	(4)	0/24		---	(0.005 - 0.02)											29	
30	1-aminonaphthalene-4-sulfonic acid	84-86-6	1985	0/33		---	(0.5)	0/33		---	(0.007)											30	
31	2-aminonaphthalene-1-sulfonic acid	81-16-3	1985	0/30		---	(0.5)	0/30		---	(0.007)											31	
32	2-aminonaphthalene-5-sulfonic acid	81-05-0	1985	0/33		---	(0.5)	0/33		---	(0.007)											32	
33	2-aminonaphthalene-6-sulfonic acid	93-00-5	1985	0/33		---	(0.5)	0/33		---	(0.007)											33	
34	2-aminonaphthalene-7-sulfonic acid	494-44-0	1985	0/33		---	(0.5)	0/33		---	(0.007)											34	
35	2-aminonaphthalene-8-sulfonic acid	86-06-2	1985	0/33		---	(0.5)	0/33		---	(0.007)											35	
36	1-amino-8-naphthol-3,6-disulfonic acid	90-20-0	1980	0/24		---	(4)	0/24		---	(0.04 - 0.1)											36	
37	2-amino-5-naphthol-7-sulfonic acid	87-02-5	1980	0/24		---	(4)	0/24		---	(0.04 - 0.1)											37	
38	2-aminobiphenyl	90-41-5	1977	0/ 6		---	(0.05)	0/ 3		---	(0.02)											38	
39	2-aminopyridine	504-29-0	1983	0/30		---	(0.1 - 0.4)	0/30		---	(0.002 - 0.05)											39	
40	3-aminopyridine	462-08-8	1983	0/30		---	(0.1 - 2)	0/30		---	(0.002 - 0.098)											40	
41	4-aminopyridine	504-24-5	1983	0/30		---	(0.1 - 3)	0/30		---	(0.005 - 0.12)											41	
42	o-aminophenol	95-55-6	1986	0/27		---	(0.1)	0/27		---	(0.02)											42	
43	m-aminophenol	591-27-5	1986	1/27		1.1	(0.7)	0/27		---	(0.03)											43	
44	p-aminophenol	123-30-8	1986	0/27		---	(0.8)	0/27		---	(0.05)											44	
45	3-aminobenzenesulfonic acid	121-47-1	1981	0/ 6		---	(60)	0/ 6		---	(0.5)											45	
46	1-amino-2-methylanthraquinone	82-28-0	1986	0/30		---	(0.2)	0/30		---	(0.2)											46	
47	1-amino-2-methoxy-5-methylbenzene	120-71-8	1985	0/27		---	(0.6)	0/27		---	(0.03)											47	
48	allylamine	107-11-9	1981	0/27		---	(0.7 - 4)	0/27		---	(0.007 - 0.01)											48	
49	3-allyloxy-1,2-benzisothiazole-1,1-dioxide	27605-76-1	1992	0/75		---	(0.11)	0/75		---	(0.011)	0/72		---	(0.023)							49	
50	tris(2-chloroethyl)phosphite	140-08-9	1984	0/24		---	(3 - 40)	0/24		---	(0.07 - 8.8)											50	
51	sodium alkyl benzene sulfonate(straight chain)		1977	9/51		280 - 29,000	(10)	21/51		1.0 - 260	(1)											51	
52	sodium alkyl benzene sulfonate(branched chain)		1977	0/51		---	(10)	0/51		---	(1)											52	
53	aldrin	309-00-2	1974	0/60		---	(0.1)	0/60		---	(0.01)	0/60		---	(0.005)							53	
54	benzoic acid	65-85-0	1985	3/33		5 - 6	(4)	24/33		0.05 - 4.58	(0.04)											54	
			1986	31/111		0.2 - 2.1	(0.2)	112/146		0.02 - 2.0	(0.02)	113/137		0.005 - 0.31	(0.005)								
55	anthraquinone	84-65-1	1988	0/75		---	(0.2)	21/53		0.018 - 3.7	(0.018)											55	
			1989	0/66		---	(0.18)	20/67		0.015 - 0.16	(0.015)												
56	anthracene	120-12-7	1976	0/20		---	(0.1)	4/20		0.01 - 0.28	(0.01)											56	
			1977	0/ 9		---	(0.02 - 3)	6/ 9		0.015 - 1.2	(0.004)												
			1999	0/36	0/12	—	(0.013)	39/39	13/13		0.0017~0.13	(0.0011)	2/36	1/12	0.00061~0.00075	(0.00054)							

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton							
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection				
57	isoxathion	18854-01-8	1993															A 0/54	---	ng/m3	(100)	57	
58	isocyanuric acid	108-80-5	1983	0/30		---	(2 - 4)	0/30		---	(0.025 - 0.24)												58
59	isophthalic acid	121-91-5	1983	0/24		---	(1 - 20)	0/24		---	(0.02 - 0.1)												59
60	isophthalonitrile	626-17-5	1977	0/ 6		---	(1 - 5)	0/ 6		---	(0.1 - 1)												60
61	isobutyronitrile	78-82-0	1977	0/ 3		---	(1)	0/ 3		---	(0.2)												61
			1987	0/75		---	(0.7)	0/75		---	(0.006)							A 0/61	---	ng/m3	(200)		
62	isoprene	78-79-5	1978	0/12		---	(1)	0/12		---	(0.001)												62
63	isopropanolamine	78-96-6	1980	0/27		---	(3 - 110)	0/27		---	(0.006 - 0.58)												63
64	isopropylamine	75-31-0	1980	0/27		---	(0.5 - 33)	0/27		---	(0.001 - 0.18)												64
			1981	0/27		---	(0.6 - 4)	0/27		---	(0.006 - 0.01)												
65	2-isopropyl-naphthalene	2027-17-0	1984	0/18		---	(0.006 - 0.2)	1/18		0.021	(0.0004 - 0.012)												65
			1985	0/141		---	(0.2)	1/141		0.032	(0.03)	3/120		0.002	(0.002)								
66	isopropylbenzene	98-82-8	1977	0/ 3		---	(2)	0/ 3		---	(0.004)												66
			1985	0/27		---	(0.04)	1/27		0.0006	(0.0006)												
			1986	8/135		0.09 - 0.44	(0.03)	6/111		0.00058 - 0.011	(0.0005)	12/138		0.0005 - 0.0014	(0.0005)								
67	3-(1-methylethyl)-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide	25057-89-0	1992	1/75		6.7	(2)	0/75		---	(0.2)		0/72		---	(0.15)							67
68	EPN	2104-64-5	1986	0/39		---	(0.3)	0/39		---	(0.03)												68
			1993															A 0/54	---	ng/m3	(50)		
69	iprobenfos	26087-47-8	1993	13/165		0.1 - 1.6	(0.094)	2/168		0.038 - 0.039	(0.037)		4/153		0.017 - 0.048	(0.016)			A 0/24	---	ng/m3	(3)	69
70	anionic surfactants		1974	26/60		0.16	(0.05)																70
71	1,2-ethanediol	107-21-1	1977	0/ 6		---	(100 - 400)	0/ 6		---	(1 - 2.0)												71
			1986	2/24		1.3 - 2.0	(0.8)	0/24		---	(0.06)												
72	N-ethylaniline	103-69-5	1976	2/68		0.43 - 0.58	(0.1 - 0.6)	20/68		0.002 - 0.038	(0.002 - 0.008)												72
			1990	0/54		---	(0.05)	0/63		---	(0.05)	0/54		---	(0.0043)			A 1/36		160ng/m <sup>3</sup>	(130)		
73	ethylamine	75-04-7	1981	0/27		---	(0.8 - 2)	0/27		---	(0.005 - 0.01)												73
74	2-ethylanthraquinone	84-51-5	1985	0/33		---	(0.3)	0/33		---	(0.05)												74
75	ethylthiometon	298-04-4	1993															A 0/27	---	ng/m3	(2)		75
76	ethylbiphenyl	40529-66-6	1976	0/68		---	(0.6 - 20)	0/50		---	(0.16 - 20)		0/20		---	(0.12 - 0.5)							76
77	o-ethylphenol	90-00-6	1983	0/33		---	(0.04 - 0.2)	0/33		---	(0.001 - 0.02)												77
78	m-ethylphenol	620-17-7	1983	0/33		---	(0.06 - 0.3)	0/33		---	(0.001 - 0.02)												78

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				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection				
79	p-ethylphenol	123-07-9	1983	0/33		---	(0.06 - 0.3)	0/33		---	(0.001 - 0.02)										79		
80	2-ethylhexanol	104-76-7	1979	0/30		---	(0.002 - 200)	0/30		---	(0.00003 - 2)											80	
			1995	0/33		---	(6)	0/33		---	(0.61)												
81	S-ethyl perhydroazepine-1-thiocarboxylate	2212-67-1	1992	1/42		0.077	(0.02)	1/42		0.0037	(0.002)	0/42		---	(0.006)	A 0/49		---	ng/m3	(10)	81		
82	ethylbenzene	100-41-4	1977	0/ 3		---	(2)	0/ 3		---	(0.004)											82	
			1985	0/21		---	(0.02)	3/21		0.0009 - 0.0027	(0.0008)												
			1986	7/133		0.03 - 1.1	(0.03)	28/120		0.0005 - 0.028	(0.0005)	43/138		0.001 - 0.0098	(0.001)								
			1999														A 45/45	15/15	89~ 1000ng/m <sup>3</sup>	(33)			
83	N-ethylmorpholine	100-74-3	1979	0/33		---	(1 - 30)	0/33		---	(0.01 - 0.7)										83		
84	ethylene	74-85-1	1977	1/ 6		0.1	(0.05 - 5)	3/ 6		0.0002 - 0.0006	(0.005)										84		
85	ethylene oxide	75-21-8	1980	0/36		---	(0.2 - 5)	0/12		---	(0.001 - 0.003)											85	
			1996													A 42/51		30 - 300ng/m3	(25)				
86	ethylene chlorohydrin	107-07-3	1980	0/24		---	(0.3 - 5)	0/24		---	(0.02 - 0.20)										86		
87	ethylenediaminetetraacetic acid	60-00-4	1979	0/18		---	(10 - 20)	5/24		2.3 - 13	(0.2 - 2.0)											87	
			1994	4/21		17.3 - 27	(6.2)	0/21		---	(0.14)	0/18		---	(0.33)								
88	edifenphos	17109-49-8	1993	0/51		---	(0.64)	0/51		---	(0.1)										88		
89	4-ethoxyaniline	156-43-4	1977	0/ 6		---	(1 - 5)	0/ 6		---	(0.5 - 1.0)											89	
			1985	0/33		---	(0.05)	0/33		---	(0.005)												
			1998	1/39	1/13	0.36	(0.3)	0/39	0/13	---	(0.02)												
90	2-ethoxyethanol	110-80-5	1976	0/60		---	(90 - 100)	0/20		---	(0.4)											90	
			2000													A 24/38	9/13	2.3~950	(2.3)				
91	6-ethoxy-1,2-dihydro-2,2,4-trimethylquinoline	91-53-2	1980	0/42		---	(1 - 10)	0/42		---	(0.1 - 1.4)										91		
92	1,2-epoxy-3-phenoxypropane	122-60-1	1984	0/24		---	(0.1 - 0.6)	0/24		---	(0.006 - 0.02)										92		
93	2,3-epoxy-1-propanol	556-52-5	1983	0/30		---	(2 - 5)	0/30		---	(0.01 - 0.05)										93		
94	allyl chloride	107-05-1	1977	0/ 6		---	(5)														94		

**Surveyed Chemical Substances and their Detected Levels in the Environment  
(A Cumulative List for Fiscal Year 1974 - 1998)**

#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#			
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton							
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection				
95	alkyl-benzyl-dimethylammonium chloride *	8001-54-5 68391-01-5	1982	0/24		---	(3)	9/24		0.8 - 10.5	(0.1)										95		
			1983	0/126		---	(1 - 3)	30/126		0.1 - 5.2	(0.1 - 0.6)	0/123		---		(0.1 - 1)							
*Total of compounds with alkyl chains having 12,14 or 16 carbons																							
96	ethyl chloride	75-00-3	1977	0/ 3		---	(0.04)	0/ 3		---	(0.0002)												
			1979																A 8/46	0.043 - 20ppb	(0.006 - 3)		
			1980																	A 7/117	0.068 - 0.6ppb	(0.045 - 3)	
			1983																	A 56/102	0.012 - 0.776ppb	(0.011 - 0.03)	
97	vinyl chloride	75-01-4	1975	5/100		0.1	(0.05 - 40)																
			1979																		A 7/45	0.022 - 4.0ppb	(0.002 - 2)
			1980																		A 10/117	0.020 - 1.35ppb	(0.02 - 2)
			1997	12/129		0.014 - 0.25	(0.011)	5/120		0.038 - 0.005	(0.0035)										A 40/53	18 - 2000ng/m3	(15)
			1998																		A 31/36	16 - 1300ng/m3	(14)
98	benzyl chloride	100-44-7	1976	0/60		---	(30 - 100)	0/53		---	(0.4 - 1.0)	0/ 2		---		(1.0)							
			1989	0/63		---	(0.2)	0/66		---	(0.01)									A 5/21	6.4 - 8.3ng/m3	(5)	
99	methyl chloride	74-87-3	1979																	A 30/45	0.28 - 2.2ppb	(0.02 - 1)	
			1980																	A 61/99	0.048 - 3.0ppb	(0.014 - 1)	
			1983																	A 98/101	0.077 - 4.1ppb	(0.005 - 0.054)	
100	chlorinated paraffins	63449-39-8	1979	0/51		---	(10)	24/51		0.6 - 10	(0.5)												
			1980	0/120		---	(10)	31/120		0.5 - 8.5	(0.5)	0/108		---		(0.5)							
101	endosulfan sulfate	1031-07-8	1983	0/36		---	(0.03 - 0.4)	0/36		---	(0.003 - 0.054)												
102	endrin	72-20-8	1974	0/60		---	(0.1)	0/60		---	(0.01)	0/60		---		(0.005)							
103	ethyl-p-hydroxybenzoate	120-47-8	2000	0/33	0/11		(0.027)	1/33	1/11	3.3	(1.5)	2/28	1/10	1.9~2.2		(1.9)							
104	isobutyl-p-hydroxybenzoate	4247-02-3	2000	0/33	0/11		(0.023)	0/30	0/10		(2.3)	0/28	0/10			(2.6)							
105	butyl-p-hydroxybenzoate	94-26-8	2000	0/33	0/11		(0.027)	0/30	0/10		(2.3)	0/28	0/10			(2.9)							
106	isopropyl-p-hydroxybenzoate	4191-73-5	2000	0/33	0/11		(0.018)	0/33	0/11		(2.1)	0/28	0/10			(1.6)							
107	propyl-p-hydroxybenzoate	94-13-3	2000	0/33	0/11		(0.014)	0/33	0/11		(2.3)	0/28	0/10			(2.3)							
108	oxychlorane	26880-48-8	1982	0/126		---	(0.005)	3/126		0.0002 - 0.0003	(0.0002 - 0.001)	47/123		0.001 - 0.009		(0.001)							
			1986																A 0/73	--- ng/m3	(1.5)		
109	octanol	111-87-5, 29063-28-3	1979	0/27		---	(5 - 50)	0/27		---	(0.3 - 1)												
110	2-octanol	123-96-6	1995	0/33		---	(2)	0/33		---	(0.2)								A 10/18	4.2 - 130ng/m3	(4)		

**Surveyed Chemical Substances and their Detected Levels in the Environment  
(A Cumulative List for Fiscal Year 1974 - 1998)**

#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#		
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton						
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection			
111	octabromodiphenyl ether	32536-52-0	1987	0/75		---	(0.1)	3/51		0.008 - 0.021	(0.007)	0/75		---	(0.005)							111
			1988	0/147		---	(0.07)	3/135		0.015 - 0.022	(0.005)	0/144		---	(0.004)							
112	n-octylamine	111-86-4	1988	0/75		---	(0.1)	0/75		---	(0.022)											112
113	octyltin compounds		1984	0/21		---	(0.5 - 6)	0/21		---	(0.01 - 0.84)											113
114	p-octylphenol	1806-26-4	1977	0/ 6		---	(0.04 - 1.5)	2/ 6		0.004	(0.004 - 0.058)											114
115	auramine	2465-27-2	1986	0/30		---	(2)	0/30		---	(0.7)											115
116	epsilon-caprolactam	105-60-2	1977	0/ 6		---	(1 - 5)	1/ 6		1.6	(0.5 - 1)											116
			1991	0/30		---	(0.2)	0/30		---	(0.027)	1/30		0.014	(0.01)	A 7/51				120 - 330ng/m3	(100)	
117	carbazole	86-74-8	1976	0/20		---	(0.2)	0/20		---	(0.02)											117
			1994													A 0/30				---	ng/m3	(50)
118	p-carboxy-beta-(5-nitro-2-furyl) styrene, sodium salt	54992-23-3	1983	0/30		---	(0.1 - 0.5)	0/30		---	(0.001 - 0.054)											118
119	ethyl formate	109-94-4	1981	0/ 9		---	(60)	0/ 9		---	(0.5)											119
120	i-butyl formate	542-55-2	1981	0/ 9		---	(45)	0/ 9		---	(0.45)											120
121	n-butyl formate	592-84-7	1981	0/ 9		---	(60)	0/ 9		---	(0.6)											121
122	methyl formate	107-31-3	1981	0/ 9		---	(35)	0/ 9		---	(0.25)											122
123	o-xylene	95-47-6	1977	0/ 3		---	(2)	0/ 3		---	(0.004)											
			1985	1/21		0.021	(0.02)	1/21		0.0011	(0.0006)											
			1986	12/137		0.04 - 1.2	(0.03)	24/111		0.0005 - 0.007	(0.0005)	41/137		0.0008 - 0.005	(0.0008)							
			1998													A 42/42	14/14			330 - 9500ng/m3	(60)	
	m-xylene, p-xylene	108-38-3 106-42-3	1998													A 42/42	14/14			550 - 35000ng/m3	(100)	
124	m-xylene	108-38-3	1977	0/ 3		---	(2)	0/ 3		---	(0.004)											
			1985	1/21		0.042	(0.02)	1/21		0.002	(0.001)											
			1986	15/126		0.04 - 1.2	(0.03)	33/118		0.0005 - 0.0150	(0.0005)	45/124		0.00086 - 0.0092	(0.0008)							
125	p-xylene	106-42-3	1977	0/ 3		---	(2)	0/ 3		---	(0.004)											
			1985	1/21		0.037	(0.02)	0/21		---	(0.002)											
			1986	4/122		0.06 - 0.48	(0.03)	12/105		0.0005 - 0.0038	(0.0005)	28/127		0.0008 - 0.003	(0.0008)							
126	quinoline	91-22-5	1984	2/24		0.006	(0.005 - 3.9)	3/24		0.00005 - 0.00008	(0.00005 - 0.17)											
			1991	0/36		---	((0.1)	2/39		0.006	(0.0051)	0/39		---	(0.003)							
127	glyoxal	107-22-2	1980	20/33		1 - 6	(1 - 2)	29/33		0.06 - 2.8	(0.005 - 0.06)											

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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#				
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton								
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection					
128	chrysene	218-01-9	1999															A 37/37	13/13	0.26~ 3.9ng/m <sup>3</sup>	(0.12)	128		
129	glyphosate	1071-83-6	1993	0/33		---	(0.2)	0/30		---	(0.009)	0/30		---	(0.4)								129	
130	o-cresol	95-48-7	1977	0/ 9		---	(0.2 - 10)	0/ 9		---	(0.02 - 0.1)													130
131	m-cresol	108-39-4	1977	0/ 9		---	(0.2 - 10)	0/ 9		---	(0.02 - 0.1)													131
132	p-cresol	106-44-5	1977	0/ 9		---	(0.2 - 10)	3/ 9		0.02 - 0.03	(0.02 - 0.1)													132
			1996	1/33		0.67	(0.4)	9/27	0.028 - 1.23	(0.028)														
133	crotonaldehyde	4170-30-3	1987	0/75		---	(0.8)											A 0/61		---	ng/m <sup>3</sup>	(800)	133	
			1995	0/33		---	(2)												A 3/54		---	ng/m <sup>3</sup>		(3600 - 5,200)
			1997																A 1/42			1600ng/m <sup>3</sup>		(1000)
			1998																A 21/29	8/10	15 - 330ng/m <sup>3</sup>	(15)		
134	gamma-chlordene	3734-48-3	1982	0/126		---	(0.005)	27/126		0.0002 - 0.0040	(0.0002 - 0.001)	37/113		0.001 - 0.021	(0.001)									134
			1986																A 9/73		0.5 - 1.8ng/m <sup>3</sup>	(0.5)		
135	cis-chlordane	57-74-9	1982	0/126		---	(0.005)	76/126		0.0002 - 0.051	(0.0002 - 0.001)	97/123		0.001 - 0.053	(0.001)									135
			1986																A 18/73		0.43 - 5.0ng/m <sup>3</sup>	(0.4)		
136	trans-chlordane	57-74-9	1982	0/126		---	(0.005)	86/126		0.0002 - 0.075	(0.0002 - 0.001)	90/123		0.001 - 0.069	(0.001)									136
			1986																A 33/73		0.40 - 8.5ng/m <sup>3</sup>	(0.4)		
137	chloroacetaldehyde	107-20-0	1980	0/33		---	(1.5 - 15)	0/33		---	(0.03 - 0.3)													137
138	chloroacetone	78-95-5	1986	0/30		---	(2)	0/30		---	(0.06)													138
139	o-chloroaniline	95-51-2	1976	12/120		0.028 - 0.35	(0.02 - 100)	29/113		0.0007 - 0.098	(0.0003 - 1.0)	0/ 2		---	(1.0)									139
			1990	7/78		0.02 - 0.56	(0.02)	25/64		0.0032 - 0.028	(0.003)	2/72		0.0012 - 0.0025	(0.001)	A 0/51		---	ng/m <sup>3</sup>	(150)				
			1998	0/144	0/48	---	(0.09)	17/133	7/45	0.0051 - 0.056	(0.005)													
140	m-chloroaniline	108-42-9	1976	10/128		0.013 - 0.34	(0.04 - 100)	34/121		0.0003 - 0.067	(0.0001 - 1.2)	0/ 2		---	(1.0)								140	
			1990	3/45		0.029 - 0.06	(0.02)	24/43		0.003 - 0.043	(0.003)	0/51		---	(0.002)	A 0/51		---	ng/m <sup>3</sup>	(150)				
			1998	0/153	0/51	---	(0.11)	11/130	5/44	0.0046 - 0.022	(0.0045)													
141	p-chloroaniline	106-47-8	1976	9/128		0.024 - 0.39	(0.02 - 100)	39/121		0.001 - 0.27	(0.0005 - 1.2)	0/ 2		---	(1.0)								141	
			1990	0/54		---	(0.05)	15/42		0.0089 - 0.05	(0.008)	0/57		---	(0.005)	A 0/51		---	ng/m <sup>3</sup>	(250)				
			1998	0/135	0/45	---	(0.07)	24/135	9/45	0.0053 - 0.02	(0.005)													
142	o-chlorobenzoic acid	118-91-2	1985	0/33		---	(3)	0/33		---	(0.02)												142	
143	l-chloroanthraquinone	82-44-0	1985	0/33		---	(1)	0/27		---	(0.05)												143	



**Surveyed Chemical Substances and their Detected Levels in the Environment  
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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#	
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton					
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection		
144	2-chloroanthraquinone	131-09-9	1985	0/33		---	(1)	0/27		---	(0.05)									144	
145	2-chloro-4-ethylamino-6-isopropylamino-sym-triazine	1912-24-9	1991	0/57		---	(0.13)	0/51		---	(0.027)									145	
146	2-chloroethyl vinyl ether	110-75-8	1984	0/24		---	(0.04 - 0.2)	0/24		---	(0.005 - 0.006)									146	
147	3-chloro-1,2-epoxypropane	106-89-8	1977	0/ 3		---	(10)	0/ 3		---	(0.06)									147	
			1986	0/27		---	(0.5)	0/27		---	(0.02)										
148	chlorocyclohexane	542-18-7	1977	0/ 6		---	(0.02 - 10)	0/ 6		---	(0.0001 - 2)									148	
149	1-chloro-2,4-dinitrobenzene	97-00-7	1978	0/24		---	(0.2 - 0.5)	0/15		---	(0.007 - 0.0167)									149	
150	3-chloro-1,2-dibromopropane	96-12-8	1982	0/27		---	(2 - 12)	0/27		---	(0.012 - 0.05)									150	
			1989	0/66		---	(0.2)	0/57		---	(0.007)				A 0/36		---	ng/m3	(20)		
151	chlorodibromomethane	124-48-1	1980														A 9/63		0.0001 - 0.001ppb	(0.0001 - 0.05)	151
			1981	12/24		0.01 - 3.4	(0.01)	9/24		0.0013 - 0.0068	(0.00006)										
			1983													A 82/108		0.00008 - 0.0035ppb	(0.00003 - 0.0005)		
152	o-chlorostyrene	2039-87-4	1981	0/27		---	(10)	0/27		---	(0.2)									152	
153	m-chlorostyrene	2039-85-2	1981	0/27		---	(25)	0/27		---	(0.5)									153	
154	p-chlorostyrene	1073-67-2	1981	0/27		---	(5)	0/27		---	(0.1)									154	
155	3-chlorotriclosan	63709-57-9	1995	0/33		---	(0.04)	3/33		0.009	(0.005)	0/33		---	(0.003)					155	
156	5-chlorotriclosan	3380-44-7	1995	0/33		---	(0.06)	3/33		0.01	(0.005)	0/33		---	(0.003)					156	
157	o-chlorotoluene	95-49-8	1979	0/18		---	(0.006 - 1)	0/18		---	(0.00012 - 0.02)									157	
			1989	0/66		---	(0.3)	0/66		---	(0.011)				A 2/21		13.4 - 15ng/m3	(10)			
158	p-chlorotoluene	106-43-4	1979	0/18		---	(0.006 - 1)	0/18		---	(0.00012 - 0.02)									158	
			1989	0/66		---	(0.5)	0/66		---	(0.011)				A 0/24		---	ng/m3	(30)		
159	1-chloronaphthalene	90-13-1	1977	0/ 6		---	(0.3 - 3)	0/ 6		---	(0.012 - 0.3)									159	
			1986	0/33		---	(0.05)	0/30		---	(0.003)										
160	2-chloronaphthalene	91-58-7	1977	0/ 6		---	(0.3 - 3)	0/ 6		---	(0.012 - 0.3)									160	
			1986	0/33		---	(0.05)	0/30		---	(0.003)										
161	4-chloro-2-nitroaniline	89-63-4	1978	0/24		---	(0.1 - 0.88)	0/15		---	(0.02 - 0.0292)									161	
162	4-chloro-3-nitro-alpha, alpha, alpha-trifluorotoluene	121-17-5	1981	0/24		---	(0.2 - 1)	0/24		---	(0.002 - 0.01)									162	
163	o-chloronitrobenzene	88-73-3	1975	0/95		---	(0.1)													163	
			1991	0/156		---	(0.3)	0/162		---	(0.023)	0/138		---	(0.0075)	A 3/54		14 - 45ng/m3	(7)		

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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#	
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton					
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection		
164	m-chloronitrobenzene	121-73-3	1975	0/95		---	(0.1)													164	
			1994	0/27		---	(0.05)	0/27		---	(0.015)	0/27		---	(0.003)	A 0/27		---	ng/m3	(5)	
165	p-chloronitrobenzene	100-00-5	1978	0/24		---	(0.05 - 0.075)	0/15		---	(0.002 - 0.0025)										165
			1991	0/156		---	(0.3)	0/162		---	(0.04)	0/138		---	(0.0075)	A 5/54		3.6 - 110	ng/m3	(3)	
166	2-chloro-5-nitrobenzenesulfonic acid	96-73-1	1979	0/30		---	(2 - 20)	0/30		---	(0.05 - 0.4)										166
167	chloropicrin	76-06-2	1979	0/24		---	(0.005 - 0.1)	0/24		---	(0.00025 - 0.005)										167
			1994	0/45		---	(0.2)									A 0/51		---	ng/m3	(5000)	
168	2-chloro-4,6-bis(ethylamino)-sym-triazine	122-34-9	1980	0/18		---	(2)	0/18		---	(0.1)										168
			1991	0/57		---	(0.2)	0/54		---	(0.048)										
169	2-chloropyridine	109-09-1	1980	0/21		---	(2 - 20)	0/21		---	(0.01 - 0.2)										169
170	o-chlorophenol	95-57-8	1978	0/24		---	(0.2 - 40)	0/24		---	(0.1 - 4)										170
			1996	0/33		---	(0.05)	0/33		---	(0.009)										
171	m-chlorophenol	108-43-0	1978	0/24		---	(2 - 40)	0/24		---	(0.05 - 4)										171
			1996	0/33		---	(0.05)	0/33		---	(0.0095)										
172	p-chlorophenol	106-48-9	1978	0/24		---	(2 - 40)	0/24		---	(0.05 - 4)										172
			1996	0/33		---	(0.05)	0/33		---	(0.009)										
173	1-chlorobutane	109-69-3	1997	0/36		---	(0.01)	0/36		---	(0.028)					A 2/57		210 - 290	ng/m3	(200)	173
			1998													A 19/37	9/13	38 - 1400	ng/m3	(37)	
174	chloroprene	126-99-8	1977	0/ 6		---	(2)														174
175	1-chloropropane	540-54-5	1981	0/27		---	(0.2 - 8)	0/27		---	(0.001 - 0.004)										175
176	2-chloropropane	75-29-6	1981	0/27		---	(0.2 - 8)	0/27		---	(0.001 - 0.004)										176
177	S-4-chlorobenzyl-N,N-diethylthiocarbamate	28249-77-6	1992	0/165		---	(0.2)	3/165		0.062 - 0.1	(0.044)	0/150		---	(0.014)	A 1/46		8.4	ng/m <sup>3</sup>	(3)	177
178	o-chlorobenzaldehyde	89-98-5	1984	0/27		---	(0.2 - 1)	0/27		---	(0.003 - 0.023)										178
179	m-chlorobenzaldehyde	587-04-2	1984	0/27		---	(0.4 - 1)	0/27		---	(0.01 - 0.03)										179
180	p-chlorobenzaldehyde	104-88-1	1984	0/27		---	(0.2 - 1)	0/27		---	(0.005 - 0.03)										180

**Surveyed Chemical Substances and their Detected Levels in the Environment  
(A Cumulative List for Fiscal Year 1974 - 1998)**

#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#		
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton						
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection			
181	chlorobenzene	108-90-7	1976	0/68		---	(40 - 200)	0/61		---	(0.4 - 4)	0/ 2		---	(1.0)						181	
			1983														A 91/91		0.001 - 0.022ppb	(0.001)		
			1997	0/36		---	(0.3)	0/36		---	(0.019)											
			1998														A 24/32	10/11	20 - 160ng/m3	(20)		
182	chloropentabromocyclohexane	87-84-3	1985	0/27		---	(0.03)	0/27		---	(0.004)										182	
183	2-chloro-6-methylaniline	87-63-8	1981	0/18		---	(0.015 - 7.5)	0/18		---	(0.0005 - 0.5)										183	
184	3-chloro-4-methylaniline	95-74-9	1981	0/18		---	(0.03 - 15)	0/18		---	(0.0001 - 1.0)										184	
185	4-chloro-2-methylaniline	95-69-2	1981	0/18		---	(0.03 - 15)	0/18		---	(0.0001 - 1.0)										185	
186	2-chloro-5-methylphenol	615-74-7	1984	0/24		---	(0.025 - 0.1)	0/24		---	(0.0015 - 0.003)										186	
187	2-chloro-6-methylphenol	87-64-9	1984	0/24		---	(0.015 - 0.09)	0/24		---	(0.001 - 0.002)										187	
188	4-chloro-2-methylphenol	1570-64-5	1984	0/24		---	(0.020 - 0.09)	0/24		---	(0.001 - 0.002)										188	
189	4-chloro-3-methylphenol	59-50-7	1984	0/24		---	(0.025 - 0.1)	0/24		---	(0.0015 - 0.003)										189	
190	1-chloro-2-methylpropene	513-37-1	1980	0/36		---	(1 - 20)	0/36		---	(0.0001 - 0.1)										190	
191	3-chloro-2-methylpropene	563-47-3	1980	0/30		---	(1 - 20)	0/30		---	(0.0001 - 0.1)										191	
192	isobutyl acetate	110-19-0	2000															A 29/44	12/15	37~710	(70)	192
193	ethyl acetate	141-78-6	1995															A 18/18		99 - 11,800ng/m3	(2)	193
			2000																A 44/45	15/15	170~160000	
194	2-ethoxyethyl acetate	111-15-9	1986	0/30		---	(0.5)	0/30		---	(0.09)											194
			1995	0/33		---	(0.05)	0/33		---	(0.0036)											
195	vinyl acetate	108-05-4	1995	0/33		---	(5)											A 4/18		55 - 5,000ng/m3	(50)	195
			2000																A 8/42	5/14	21~5500	
196	butyl acetate	123-86-4	1995	0/33		---	(0.2)											A 18/18		8.1 - 2,100ng/m3	(2)	196
			2000																A 39/45	14/15	36~130000	
197	2-methoxyethyl acetate	110-49-6	1986	0/30		---	(0.7)	0/30		---	(0.2)											197
198	methoxybutyl acetate	4435-53-4	1980	0/27		---	(2.5 - 10)	0/27		---	(0.025 - 0.8)											198
			1995	0/33		---	(0.2)															
199	salithion	3811-48-2	1993															A 0/27		--- ng/m3	(2)	199

**Surveyed Chemical Substances and their Detected Levels in the Environment  
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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#			
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton							
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection				
200	o-dianisidine	119-90-4	1977	0/ 6		---	(0.05)	0/ 3		---	(0.003)									200			
201	2-cyanopyridine	100-70-9	1984	0/24		---	(1 - 4)	0/24		---	(0.06 - 0.2)									201			
202	3-cyanopyridine	100-54-9	1984	0/24		---	(1 - 4)	0/24		---	(0.05 - 0.2)									202			
203	4-cyanopyridine	100-48-1	1984	0/24		---	(0.9 - 4)	0/24		---	(0.04 - 0.2)									203			
204	1,4-diaminoanthraquinone	128-95-0	1986	0/30		---	(0.3)	0/30		---	(0.2)									204			
205	1,2-diaminoethane	107-15-3	1987	0/87		---	(0.4)	1/84		0.087	(0.078)									205			
206	4,4'-methylenebisbenzeneamine	101-77-9	1985	0/30		---	(5)	0/24		---	(1)									206			
207	1,2-diaminopropane	78-90-0	1987	0/87		---	(0.6)	0/87		---	(0.100)									207			
208	1,3-diaminopropane	109-76-2	1987	0/87		---	(0.4)	0/87		---	(0.19)									208			
209	1,6-diaminohexane	124-09-4	1987	0/87		---	(2)	0/87		---	(0.46)									209			
210	diallylamine	124-02-7	1981	0/27		---	(0.8 - 2)	0/27		---	(0.005 - 0.01)									210			
211	diisobutylene	107-40-4	1978	0/12		---	(0.16 - 0.3)	0/12		---	(0.00031 - 0.00078)									211			
212	diisopropylidene acetone	504-20-1	1981	0/36		---	(0.02 - 10)	0/36		---	(0.0008 - 0.2)									212			
213	diisopropylamine	108-18-9	1981	0/27		---	(2)	0/27		---	(0.005 - 0.02)									213			
214	diisopropyl-1,3-dithiolan-2-ylidenemalonate	50512-35-1	1992	26/78		0.05 - 0.27	(0.045)	8/78		0.011 - 0.034	(0.01)	6/75		0.0094 - 0.15	(0.0064)	A 0/52		---	ng/m3	(15)	214		
215	diisopropyl-naphthalene	38640-62-9	1975	0/100		---	(0.17 - 0.5)	9/100		0.061 - 0.19	(0.03 - 0.25)	2/94		0.028 - 0.048	(0.025 - 0.25)						215		
			1977	0/117		---	(0.01 - 10)	6/117		0.0019 - 0.1	(0.0011 - 0.6)	7/93		0.00052 - 0.0017	(0.0002 - 0.5)								
			1980	0/120		---	(0.01 - 20)	3/120		0.049 - 0.064	(0.01 - 1.0)	3/108		0.006 - 0.025	(0.002 - 2.5)								
216	m-diisopropylbenzene	99-62-7	1977	0/ 3		---	(4)	0/ 3		---	(0.01)										216		
217	p-diisopropylbenzene	100-18-5	1977	0/ 3		---	(4)	0/ 3		---	(0.01)										217		
218	diethanolamine	111-42-2	1978	0/12		---	(0.3 - 3.4)														218		
219	N,N-diethylaniline	91-66-7	1977	0/ 6		---	(1 - 5)	0/ 6		---	(0.25 - 1)										219		
220	diethylamine	109-89-7	1981	0/27		---	(0.6 - 4)	0/27		---	(0.006 - 0.01)										220		
221	diethylbiphenyl	28575-17-9	1976	0/68		---	(0.8 - 20)	0/50		---	(0.2 - 2.0)	0/20		---	(0.16 - 0.5)						221		
222	tetrachlorocarbon	56-23-5	1974	0/60		---	(0.02 - 0.5)										R 2/18		0.0102 - 0.0105ppm	(0.00002 - 0.0005)		222	
			1975	105/355		0.02 - 1.3	(0.01 - 0.3)										R 17/108		0.000022 - 0.0036ppm	(0.00002 - 0.0003)			
			1979															A 42/45		0.04 - 0.79ppb	(0.006 - 3)		
			1980															A 122/131		0.022 - 0.76ppb	(0.001 - 0.03)		
			1983															A 108/108		0.019 - 0.95ppb	(0.0025 - 0.030)		
223	dioxane	123-91-1	1976	0/60		---	(100)	0/20		---	(0.4)										223		

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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#				
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton								
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection					
			2000															A 22/34	9/12	4~1200	(6.8)			
224	dioctyltin compounds		1984	0/21		---	(0.5 - 1)	0/21		---	(0.03 - 0.14)												224	
			2000	3/144	2/48	0.0078~0.072	(0.059)	33/144	13/48	0.7~100	(6.1)	23/117	12/39	0.07~6.5	(0.64)									
225	cyclohexanone	108-94-1	1980	0/24		---	(4 - 50)	0/24		---	(0.2 - 1.0)													225
226	cyclohexane	110-82-7	1979	0/27		---	(0.05 - 0.2)	0/27		---	(0.0001 - 0.0004)													226
227	cyclohexylamine	108-91-8	1982	8/15		0.06 - 0.18	(0.06 - 0.5)	6/15		0.005 - 0.020	(0.004 - 0.005)													227
			1983	2/126		0.9 - 1.1	(0.3 - 2)	3/126		0.032 - 0.041	(0.01 - 0.08)	3/123		0.090 - 0.11	(0.015 - 0.1)									
228	N-cyclohexyl-2-benzothiazolesulfenamide	95-33-0	1977	0/12		---	(0.02 - 0.08)	0/12		---	(0.0023 - 0.02)													228
			1998	0/36	0/12	---	(0.21)	0/39	0/13	---	(0.01)													
229	cyclopentadiene	542-92-7	1980	3/24		0.4 - 0.8	(0.1 - 0.2)	0/24		---	(0.0004 - 0.0022)													229
230	cyclopentane	287-92-3	1980	7/24		0.1 - 0.8	(0.1 - 0.2)	3/24		0.0007 - 0.003	(0.0004 - 0.0024)													230
231	2,3-dichloroaniline	608-27-5	1984	0/18		---	(0.01 - 0.1)	0/18		---	(0.0001 - 0.012)													231
232	2,4-dichloroaniline	554-00-7	1976	7/68		0.032 - 0.53	(0.02 - 0.3)	12/68		0.0005 - 0.034	(0.0005 - 0.001)													232
			1998	0/39	0/13	---	(0.07)	0/36	0/12	---	(0.008)													
233	2,5-dichloroaniline	95-82-9	1984	0/18		---	(0.05 - 0.1)	1/18		0.0006	(0.0006 - 0.012)													233
			1998	0/39	0/13	---	(0.07)	1/36	1/12	0.01	(0.005)													
234	2,6-dichloroaniline	608-31-1	1984	0/18		---	(0.1 - 1)	0/18		---	(0.0098 - 0.012)													234
235	3,4-dichloroaniline	95-76-1	1976	4/68		0.24 - 0.42	(0.04 - 0.3)	31/68		0.0045 - 0.11	(0.0008 - 0.003)													235
			1984	0/18		---	(0.03 - 0.1)	1/18		0.0016	(0.0003 - 0.012)													
			1998	0/39	0/13	---	(0.09)	4/39	2/13	0.012 - 0.015	(0.01)													
236	3,5-dichloroaniline	626-43-7	1984	0/18		---	(0.02 - 0.1)	0/18		---	(0.0002 - 0.012)													236
237	1,1-dichloroethane	75-34-3	1977	0/ 3		---	(0.05)	0/ 3		---	(0.0003)													237
			1979															A 0/36		---	ppb	(0.2 - 10)		
			1987	11/66		0.005 - 0.030	(0.005)	4/60		0.00011 - 0.00027	(0.00011)							A 6/73		17 - 90	ng/m <sup>3</sup>	(10)		
			1988	36/129		0.005 - 16	(0.005)	4/117		0.00014 - 0.00048	(0.0001)													
			1999	31/156	12/52	0.0030~0.072	(0.003)	9/138	3/46	0.0087~0.028	(0.0023)							A 5/21	2/7	11~24	ng/m <sup>3</sup>	(10)		

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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#	
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton					
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection		
238	1,2-dichloroethane	107-06-2	1976	0/60		---	(40 - 200)	0/40		---	(1.0 - 3.4)	0/10		---	(8.7)						238
			1979													A 6/45		0.06 - 10ppb	(0.003 - 10)		
			1980													A 18/81		0.013 - 0.89ppb	(0.013 - 7)		
			1987	30/78		0.03 - 2.5	(0.02)	6/63		0.00052 - 0.00065	(0.0005)					A 60/73		10 - 6,600ng/m3	(10)		
			1988	66/141		0.02 - 3.4	(0.02)	5/126		0.00062 - 0.0028	(0.0005)					A 39/68		45 - 2,200ng/m3	(40)		
239	1,1-dichloroethylene	75-35-4	1979	0/21		---	(0.028 - 0.3)	0/21		---	(0.0003 - 0.002)										239
240	cis-1,2-dichloroethylene	156-59-2	1977	0/ 3		---	(0.06)	0/ 3		---	(0.0003)										240
			1987	24/66		0.005 - 0.54	(0.005)	1/69		0.00033	(0.0002)					A 19/73		10 - 160ng/m3*	(10)		
241	trans-1,2-dichloroethylene	156-60-5	1977	0/ 3		---	(0.03)	0/ 3		---	(0.0002)										241
			1987	6/78		0.077 - 0.23	(0.01)	3/78		0.0013 - 0.0079	(0.00026)					A 19/73		10 - 160ng/m3*	(10)		
242	dichloroacetic acid	79-43-6	1984	0/21		---	(2)	0/21		---	(0.01 - 0.02)										242
243	3,3'-dichloro-4,4'-diaminodiphenyl methane	101-14-4	1979	0/39		---	(0.02 - 200)	0/39		---	(0.001 - 3.0)										243
			1985	0/30		---	(5)	0/24		---	(0.4)										
244	p,p'-dichlorodiphenyldichloroethylene	72-55-9	1974	0/55		---	(0.0003 - 0.1)	22/50		0.0001 - 0.0079	(0.01)	43/49		0.0006 - 0.131	(0.0002 - 0.005)						244
245	p,p'-dichlorodiphenyldichloroethane	72-54-8	1974	0/55		---	(0.0007 - 0.1)	20/55		0.010 - 0.0150	(0.01)	25/49		0.0008 - 0.015	(0.0008 - 0.005)						245
246	o,p'-dichlorodiphenyltrichloroethane	789-02-6	1974	0/55		---	(0.0007 - 0.1)	0/50		---	(0.0003 - 0.01)	6/49		0.0016 - 0.0021	(0.0005 - 0.005)						246
247	p,p'-dichlorodiphenyltrichloroethane	50-29-3	1974	0/55		---	(0.002 - 0.1)	20/50		0.0008 - 0.0073	(0.01)	7/49		0.0009 - 0.0013	(0.0005 - 0.005)						247
248	dichlorodifluoromethane	75-71-8	1976													A 45/115		0.31 - 33ppb	(0.25 - 1)		248
			1977													A 38/97		0.043 - 0.73ppb	(0.019 - 2)		
249	3,5-dichlorotriclosan	53555-01-4	1995	0/33		---	(0.05)	1/33		0.008	(0.0056)	1/33		0.018	(0.0089)						249
250	2,4-dichlorotoluene	95-73-8	1981	0/21		---	(6 - 60)	0/21		---	(0.15)										250
			1997	0/36		---	(0.4)	0/33		---	(0.0093)										
251	2,6-dichlorotoluene	118-69-4	1981	0/21		---	(8 - 80)	0/21		---	(0.2)										251
252	3,4-dichlorotoluene	95-75-0	1981	0/21		---	(10 - 100)	0/21		---	(0.25)										252
253	2,3-dichloro-1,4-naphthoquinone	117-80-6	1982	0/24		---	(0.08 - 0.15)	0/24		---	(0.006 - 0.033)										253
254	2,3-dichloronitrobenzene	3209-22-1	1981	0/21		---	(0.03)	0/21		---	(0.0015)										254

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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#	
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton					
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection		
255	2,4-dichloronitrobenzene	611-06-3	1981	0/21		---	(0.02)	0/21		---	(0.001)									255	
			1994	0/27		---	(0.06)	0/27		---	(0.0085)	0/27		---	(0.003)	A 0/27		---	ng/m3	(14)	
256	2,5-dichloronitrobenzene	89-61-2	1981	0/21		---	(0.02)	0/21		---	(0.001)										256
			1994	0/27		---	(0.05)	0/27		---	(0.012)	0/27		---	(0.003)	A 0/27		---	ng/m3	(11)	
257	3,4-dichloronitrobenzene	99-54-7	1981	0/21		---	(0.02)	0/21		---	(0.001)										257
258	3,5-dichloronitrobenzene	618-62-2	1981	0/21		---	(0.006)	0/21		---	(0.0003)										258
259	2,4-dichlorophenyl-4'-nitrophenyl ether	1836-75-5	1982	3/54		0.005 - 0.027	(0.001 - 0.2)	0/54		---	(0.0001 - 0.009)										259
260	N-(3,4-dichlorophenyl)propanamide	709-98-8	1980	0/30		---	(0.1 - 10)	0/30		---	(0.005 - 0.1)										260
261	2,4-dichlorophenyl-3'-methoxy-4'-nitrophenyl ether	32861-85-1	1982	5/54		0.002 - 0.003	(0.001 - 0.2)	0/54		---	(0.0002 - 0.03)										261
			1991	0/57		---	(0.3)	0/54		---	(0.067)					A 0/54		---	ng/m3	(40)	
262	2,4-dichlorophenoxyacetic acid	94-75-7	1983	0/45		---	(0.05 - 1)	0/45		---	(0.001 - 0.076)										262
			1996	0/33		---	(0.2)	0/33		---	(0.022)										
263	2,3-dichlorophenol	576-24-9	1978	0/24		---	(0.2 - 40)	0/24		---	(0.005 - 4)										263
			1996	0/33		---	(0.07)	0/33		---	(0.011)					A 0/18		---	ng/m3	(10)	
264	2,4-dichlorophenol	120-83-2	1978	0/24		---	(0.2 - 40)	0/24		---	(0.005 - 4)										264
			1996	0/33		---	(0.07)	0/33		---	(0.011)					A 0/18		---	ng/m3	(10)	
265	2,5-dichlorophenol	583-78-8	1978	0/24		---	(0.2 - 40)	0/24		---	(0.005 - 4)										265
			1996	0/33		---	(0.07)	0/33		---	(0.011)					A 0/18		---	ng/m3	(10)	
266	2,6-dichlorophenol	87-65-0	1978	0/24		---	(0.2 - 40)	0/24		---	(0.005 - 4)										266
			1996	0/33		---	(0.07)	0/33		---	(0.011)					A 0/18		---	ng/m3	(10)	
267	3,4-dichlorophenol	95-77-2	1978	0/24		---	(1 - 40)	0/24		---	(0.03 - 4)										267
			1996	0/33		---	(0.07)	0/33		---	(0.011)					A 0/18		---	ng/m3	(10)	
268	3,5-dichlorophenol	591-35-5	1978	0/24		---	(1 - 40)	0/24		---	(0.03 - 4)										268
			1996	0/33		---	(0.07)	0/33		---	(0.011)					A 0/18		---	ng/m3	(10)	
269	3,4-dichloro-1-butene	760-23-6	1997	0/36		---	(0.011)	0/36		---	(0.014)					A 0/57		---	ng/m3	(60)	269
			1998													A 1/36	1/12	80ng/m <sup>3</sup>	(60)		
270	1,3-dichloro-2-propanol	96-23-1	1987	3/87		3.1 - 4.0	(1)	0/81		---	(0.09)	0/87		---	(0.02)	A 0/73		---	ng/m3	(40)	270
			1995	0/33		---	(2)	0/33		---	(0.2)					A 1/18		5ng/m <sup>3</sup>	(5)		

**Surveyed Chemical Substances and their Detected Levels in the Environment  
(A Cumulative List for Fiscal Year 1974 - 1998)**

#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#		
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton						
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection			
271	2,3-dichloro-1-propanol	616-23-9	1987	0/87		---	(2)	0/81		---	(0.09)	0/87		---	(0.03)	A 0/73		---	ng/m3	(40)	271	
272	1,2-dichloropropane	78-87-5	1976	0/60		---	(40 - 300)	0/40		---	(1.0 - 3.4)	0/10		---	(8.7)						272	
273	2,2-dichloropropanoic acid	127-20-8	1980	0/24		---	(10 - 50)	0/24		---	(0.5 - 0.68)										273	
			1984	2/21		1	(0.5 - 10)	0/21		---	(0.01 - 0.06)											
274	1,3-dichloropropene	542-75-6	1984	0/21		---	(0.5 - 4)	0/21		---	(0.002 - 0.07)										274	
275	2,3-dichloro-1-propene	78-88-6	1988	0/66		---	(0.5)	0/66		---	(0.0042)					A 0/72		---	ng/m3	(200)	275	
276	dichlorobromomethane	75-27-4	1980													A 9/81		0.0001 - 0.0019ppb	(0.0001 - 0.05)		276	
			1981	1/15		0.01	(0.01)	0/15		---	(0.00006)											
			1983														A 83/93		0.00005 - 0.013ppb	(0.00004 - 0.0005)		
277	3,3-dichloro-(1,1'-biphenyl)-4,4'-diamine	91-94-1	1979	0/21		---	(0.01 - 7)	0/21		---	(0.0003 - 0.9)										277	
278	ethyl-p,p'-dichlorobenzilate	510-15-6	1987	0/75		---	(1)	0/66		---	(0.06)	0/75		---	(0.03)						278	
279	o-dichloricide	95-50-1	1975	0/95		---	(0.3 - 3)	0/95		---	(0.02 - 0.5)	0/75		---	(0.05 - 0.5)	R 0/24		---		(0.0003 - 0.003)	279	
			1983													A 93/97		0.001 - 0.050ppb	(0.001)			
			1999													A 20/30	7/10	34~ 420ng/m <sup>3</sup>	(29)			
280	m-dichloricide	541-73-1	1975	0/95		---	(0.1 - 2)	3/95		0.01 - 0.05	(0.01 - 0.5)	0/75		---	(0.02 - 0.5)	R 0/24		---		(0.0001 - 0.002)	280	
			1983													A 24/95		0.001 - 0.0098ppb	(0.001)			
			1999													A9/33	4/11	23~ 370ng/m <sup>3</sup>	(21)			
281	p-dichloricide	106-46-7	1975	2/95		0.5 - 1	(0.3 - 3)	1/95		0.03	(0.02 - 0.5)	0/75		---	(0.05 - 0.5)	R 0/24		---		(0.0003 - 0.003)	281	
			1983													A 95/95		0.0021 - 0.88ppb	(0.001)			
			1999													A 36/43	14/15	160~ 17000ng/m <sup>3</sup>	(130)			
282	dichloromethane	75-09-2	1979													A 25/46		0.07 - 1.5ppb	(0.006 - 10)	282		
			1980													A 47/135		0.026 - 0.8ppb	(0.005 - 8)			
			1983													A 99/101		0.002 - 5.6ppb	(0.001 - 0.01)			
			1998													A 42/42	14/14	280 - 24000ng/m3	(70)			
283	N,N-dicyclohexyl-2-benzothiazolesulfene amide	4979-32-2	1998	0/39	0/13	---	(0.3)	0/39	0/13	---	(0.01)										283	
284	dicyclopentadiene	77-73-6	1978	0/12		---	(0.016 - 0.2)	3/12		0.00087 - 0.00093	(0.000042 - 0.0003)										284	
			1989	0/66		---	(0.1)	0/57		---	(0.005)											
285	S-[alpha-(ethoxycarbonyl)benzyl] O,O-dimethyl phosphorodithioate	2597-03-7	1988	0/72		---	(0.1)	0/72		---	(0.051)	0/72		---	(0.003)	A 0/72		---	ng/m3	(20)	285	



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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#	
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton					
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection		
286	2,4-dinitroaniline	97-02-9	1990	0/75		---	(1.7)	1/75		0.56	(0.19)	0/72		---	(0.078)					286	
287	2,6-dinitro-p-cresol	609-93-8	1994	0/36		---	(0.2)	0/36		---	(0.015)	0/36		---	(0.005)					287	
288	2,4-dinitrotoluene	121-14-2	1976	0/70		---	(0.08 - 0.1)	0/50		---	(0.00035 - 0.01)	0/10		---	(0.006)					288	
			1991	0/48		---	(0.14)	0/48		---	(0.0099)	0/45		---	(0.005)						
289	2,6-dinitrotoluene	606-20-2	1976	1/70		0.054	(0.025 - 0.03)	3/55		0.003 - 0.0050	(0.0007 - 0.01)	0/10		---	(0.002)					289	
			1991	0/48		---	(0.11)	0/48		---	(0.011)	0/45		---	(0.005)						
290	3,4-dinitrotoluene	610-39-9	1976	0/70		---	(0.05 - 0.075)	0/95		---	(0.002 - 0.01)	0/10		---	(0.004)					290	
291	1,5-dinitronaphthalene	605-71-0	1985	0/30		---	(0.05)	0/30		---	(0.004)									291	
292	1,8-dinitronaphthalene	602-38-0	1985	0/30		---	(0.05)	0/30		---	(0.004)									292	
293	1,3-dinitropyrene	75321-20-9	1990	0/69		---	(0.04)	0/72		---	(0.13)	0/69		---	(0.075)					293	
294	1,6-dinitropyrene	42397-64-8	1990	0/69		---	(0.04)	0/72		---	(0.15)	0/69		---	(0.075)					294	
295	1,8-dinitropyrene	42397-65-9	1990	0/69		---	(0.04)	0/72		---	(0.15)	0/69		---	(0.08)	A 0/48		---	ng/m3	(0.01)	295
296	2,4-dinitrophenol	51-28-5	1984	0/21		---	(0.04 - 0.2)	0/21		---	(0.004 - 0.041)									296	
			1994	0/36		---	(0.4)	0/36		---	(0.0076)	0/36		---	(0.01)						
297	o-dinitrobenzene	528-29-0	1976	0/70		---	(0.05)	1/54		0.0008	(0.0002 - 0.01)	0/10		---	(0.004)					297	
			1991	0/45		---	(0.1)	0/48		---	(0.013)										
298	m-dinitrobenzene	99-65-0	1976	0/70		---	(0.1 - 0.25)	1/51		0.08	(0.007 - 0.02)	0/10		---	(0.01)					298	
			1991	0/45		---	(0.1)	0/48		---	(0.012)	0/48		---	(0.005)						
299	p-dinitrobenzene	100-25-4	1994	0/27		---	(0.054)	0/27		---	(0.014)	0/27		---	(0.003)					299	
300	4,6-dinitro-2-methylphenol	534-52-1	1984	0/21		---	(0.016 - 0.08)	0/21		---	(0.0016 - 0.017)									300	
301	2,3-dihydro-2,2-dimethylbenzofuran-7-yl methylcarbamate	1563-66-2	1992	0/72		---	(0.1)	0/72		---	(0.04)	0/69		---	(0.02)					301	
302	diphenylamine	122-39-4	1976	0/80		---	(0.6 - 5)	0/20		---	(0.20 - 0.74)	0/20		---	(0.15 - 0.25)					302	
			1990	3/81		0.4 - 1.2	(0.2)	12/63		0.0063 - 0.2	(0.005)	2/72		0.03	(0.02)						
303	diphenyl ether	101-84-8	1976	0/88		---	(0.6 - 5)	0/28		---	(0.1 - 0.74)	0/20		---	(0.15 - 0.25)					303	
			1984	0/24		---	(0.02 - 0.08)	0/24		---	(0.0006 - 0.003)										
304	diphenylguanidine	102-06-7	1978	0/42		---	(2 - 50)	0/42		---	(0.1 - 0.5)									304	
305	diphenyl disulfide	882-33-7	1983	0/30		---	(0.1)	0/30		---	(0.005 - 0.024)									305	
306	diphenyltin compounds		1989	5/72		0.38 - 27	(0.06)	31/53		0.007 - 0.5	(0.005)	48/59		0.005 - 0.99	(0.005)					306	
			1998	12/133	6/45	0.00037 - 0.0017	(0.0003)	79/138	30/46	0.00079 - 0.21	(0.00072)										
			1999	8/141	4/47	0.00026~0.0036	(0.00025)	65/149	26/50	0.00061~0.059	(0.00061)	41/134	20/45	0.00013~0.0039	(0.00013)						
307	1,1-diphenylhydrazine	530-50-7	1982	0/ 9		---	(10)	0/ 9		---	(0.3)									307	

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton				
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection		Limit of detection
308	N,N'-diphenylhydrazine	122-66-7	1986	0/30		---	(0.6)	0/30		---	(0.3)									308
309	diphenylmethane	101-81-5	1983	0/33		---	(0.03 - 0.4)	3/33		0.059 - 0.16	(0.004 - 0.041)									309
			1984	2/138		0.6 - 1.1	(0.008 - 0.5)	10/138		0.0006 - 0.0019	(0.0004 - 0.044)	3/138		0.0019 - 0.0049	(0.0001 - 0.008)					
310	di-n-butylamine	111-92-2	1986	0/30		---	(2)	0/30		---	(0.05)									310
311	2,6-di-t-butyl-4-ethylphenol	4130-42-1	1984	0/30		---	(0.06 - 0.3)	2/30		0.0036 - 0.0048	(0.0006 - 0.0071)									311
312	dibutyltin compounds		1983	0/75		---	(0.1 - 0.4)	3/75		0.02 - 0.03	(0.01 - 0.044)									312
			1984	0/138		---	(0.08 - 10)	6/138		0.004 - 0.11	(0.003 - 0.07)	0/138		---	(0.003 - 0.05)					
			1998	20/39	8/13	0.003 - 0.017	(0.0021)	36/36	12/12	0.002 - 0.27	(0.002)									
			1999	109/145	40/49	0.0011~0.02	(0.001)	122/153	45/51	0.0027~0.19	(0.0025)	75/140	29/47	0.0023~0.071	(0.0023)					
313	2,5-di-t-butylhydroquinone	88-58-4	1980	0/39		---	(0.3 - 10)	0/39		---	(0.027 - 0.2)									313
314	2,6-di-t-butylphenol	128-39-2	1996	0/33		---	(0.3)	0/33		---	(0.071)	0/33		---	(0.04)					314
315	2,6-di-t-butyl-4-methylphenol	128-37-0	1976	0/68		---	(0.4 - 5)	10/68		0.066 - 1.69	(0.01 - 0.04)									315
			1977	0/117		---	(0.1 - 5)	17/117		0.008 - 0.22	(0.008 - 0.06)	7/85		0.006 - 0.069	(0.004 - 0.12)					
			1985												A 29/60		1.2 - 20ng/m3	(1.0 - 5)		
			1996	0/33		---	(0.3)	1/33		0.103	(0.09)	0/33		---	(0.058)	A 5/18		37 - 70ng/m3	(32)	
316	1,2-dibromoethane	106-93-4	1976	0/60		---	(0.2 - 75)	0/40		---	(0.005 - 0.17)	0/20		---	(0.005)					316
			1982	0/27		---	(0.3 - 2)	0/27		---	(0.0016 - 0.01)									
			1983												A 71/108		0.001 - 0.067ppb	(0.0003 - 0.001)		
			1997												A 0/57		--- ng/m3	(90)		
			1998												A 0/39	0/13	--- ng/m3	(71)		
317	1,2-dibromoethylene	540-49-8	1981	0/15		---	(0.5 - 3)	0/15		---	(0.003 - 0.02)									317
318	dibromocresyl glycidyl ether	30171-80-3	1977	0/15		---	(0.05 - 0.25)	0/15		---	(0.006 - 0.02)									318
319	4,4'-dibromodiphenyl	96-86-4	1997	0/156		---	(0.031)	0/147		---	(0.003)	0/156		---	(0.01)					319
320	o-dibromobenzene	583-53-9	1981	0/18		---	(0.01 - 0.05)	0/18		---	(0.0002 - 0.0005)									320
321	m-dibromobenzene	108-36-1	1981	0/18		---	(0.02 - 0.05)	0/18		---	(0.0005)									321
322	p-dibromobenzene	106-37-6	1981	0/18		---	(0.04 - 0.1)	0/18		---	(0.001)									322
323	dibromomethane	74-95-3	1981	0/15		---	(0.06)	0/15		---	(0.0003)									323
324	dibenzyl ether	103-50-4	1984	3/21		0.005 - 0.007	(0.005 - 0.03)	9/21		0.0006 - 0.0057	(0.0005 - 0.0066)									324
325	dibenzyltoluene	26898-17-9	1977	0/15		---	(10 - 40)	0/15		---	(0.5 - 4)									325

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton				
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	
326	dibenz[a,h]anthracene	53-70-3	1989	1/75		0.1	(0.1)	55/60		0.0081 - 0.34	(0.006)	1/63		0.003	(0.003)	A 7/39		0.89 - 4.6ng/m <sup>3</sup>	(0.6)	326
			1999	0/39	0/13	—	(0.023)	30/33	10/11	0.0011~0.088	(0.001)	0/39	0/13	—	(0.00078)	A 12/31	7/11	0.24~1.4ng/m <sup>3</sup>	(0.23)	
327	p-dibenzoylquinone dioxime	120-52-5	1980	0/36		---	(0.1 - 10)													327
328	2,2'-dibenzothiazyl disulfide	120-78-5	1977	0/12		---	(0.5)	0/12		---	(0.05 - 0.17)									328
329	dibenzothiophene	132-65-0	1983	0/45		---	(0.05 - 0.1)	6/45		0.001 - 0.005	(0.001 - 0.007)									329
			1998	0/42	0/14	---	(0.02)	28/39	10/13	0.0022 - 0.14	(0.0021)	15/39	5/13	0.00071 - 0.013	(0.00034)					
330	dibenzofuran	132-64-9	1983	0/45		---	(0.2 - 0.4)	0/45		---	(0.006 - 0.027)									330
331	dipentamethylenethiuram tetrasulfide	120-54-7	1980	0/21		---	(0.002 - 0.07)	0/ 9		---	(0.2)									331
332	2,3-dimethylaniline	87-59-2	1976	0/68		---	(0.1 - 1)	6/68		0.006 - 0.090	(0.001 - 0.006)									332
			1990	0/54		---	(0.02)	0/54		---	(0.011)	0/27		---	(0.005)	A 0/51		--- ng/m <sup>3</sup>	(500)	
333	2,4-dimethylaniline	95-68-1	1977	0/ 6		---	(1 - 5)	0/ 6		---	(0.25 - 1)									333
334	2,5-dimethylaniline	95-78-3	1976	0/68		---	(0.2 - 0.5)	2/68		0.006 - 0.027	(0.001 - 0.004)									334
335	3,4-dimethylaniline	95-64-7	1976	0/68		---	(0.06 - 0.7)	8/68		0.001 - 0.043	(0.001 - 0.004)									335
			1977	0/ 6		---	(1 - 20)	0/ 6		---	(0.25 - 4)									
336	3,5-dimethylaniline	108-69-0	1976	1/68		0.04	(0.02 - 0.2)	5/68		0.002 - 0.01	(0.0005 - 0.001)									336
337	N,N-dimethylaniline	121-69-7	1976	2/68		1.1 - 1.7	(0.3 - 2.4)	6/68		0.011 - 0.21	(0.006 - 0.05)									337
			1990	0/69		---	(0.03)	3/63		0.014 - 0.027	(0.01)	0/69		---	(0.002)	A 1/36		380ng/m <sup>3</sup>	(100)	
338	4-dimethylaminoazobenzene	60-11-7	1986	0/30		---	(0.3)	0/30		---	(0.04)									338
339	dimethylamine	124-40-3	1986	0/33		---	(4)	9/27		0.05 - 0.227	(0.05)									339
			1991													A 0/48		--- ng/m <sup>3</sup>	(640)	
340	dimethylsulfoxide	67-68-5	1992	17/45		0.2 - 4.2	(0.2)	17/42		0.005 - 0.098	(0.005)	8/39		0.0056 - 0.028	(0.005)					340
341	1,2-dimethylnaphthalene	573-98-8	1984	3/18		0.01	(0.005 - 0.3)	1/18		0.001	(0.0003 - 0.016)									341
			1985	0/141		---	(0.2)	5/138		0.038 - 0.16	(0.03)	4/129		0.002 - 0.007	(0.002)					
			1998													A 28/30	10/10	0.37 - 9.9ng/m <sup>3</sup>	(0.3)	
342	1,3-,1,6-dimethylnaphthalene	575-41-7 575-43-9	1998													A 26/27	9/9	2 - 70ng/m <sup>3</sup>	(0.56)	342
343	1,3-dimethylnaphthalene	575-41-7	1984	3/18		0.07 - 0.08	(0.01 - 0.2)	10/18		0.011 - 0.073	(0.0008 - 0.012)									343
			1985	0/141		---	(0.2)	24/142		0.03 - 0.61	(0.03)	39/129		0.0020 - 0.059	(0.002)					

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton					
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection		
	1,4-, 1,5-, 2,3-dimethylnaphthalene *	571-58-4 571-61-9 581-40-8	1984	3/18		0.02 - 0.03	(0.005 - 0.3)	6/18		0.004 - 0.033	(0.0003 - 0.016)										
			1985	0/147		---	(0.2)	13/147		0.03 - 0.29	(0.03)	19/129		0.002 - 0.019	(0.002)						
*The values are the total of the three compounds																					
344	1,4-dimethylnaphthalene	571-58-4	1998														A 29/30	10/10	0.27 - 7.2ng/m3	(0.23)	344
345	1,5-dimethylnaphthalene	571-61-9	1998														A 28/30	10/10	0.4 - 8.9ng/m3	(0.33)	345
346	1,7-dimethylnaphthalene	575-37-1	1998														A 27/27	9/9	0.13 - 23ng/m3	(0.1)	346
347	1,8-dimethylnaphthalene	569-41-5	1985	0/147		---	(0.2)	1/135		0.072	(0.03)	0/126		---	(0.002)						347
			1998															A 21/21	7/7	0.09 - 5.1ng/m3	
348	2,3-dimethylnaphthalene	581-40-8	1998														A 28/30	10/10	0.4 - 13ng/m3	(0.4)	348
349	2,6-dimethylnaphthalene	581-42-0	1984	3/18		0.02	(0.006 - 0.2)	10/18		0.006 - 0.067	(0.0005 - 0.010)										349
			1985	0/141		---	(0.2)	18/141		0.032 - 0.31	(0.03)	18/129		0.002 - 0.016	(0.002)						
			1998															A 26/27	9/9	1.2 - 30ng/m3	
350	2,7-dimethylnaphthalene	582-16-1	1998														A 27/27	9/9	0.31 - 22ng/m3	(0.3)	350
351	N,N'-dimethyl-p-nitrosoaniline	138-89-6	1980	0/27		---	(0.2)														351
352	2,4-dimethylphenol	105-67-9	1982	0/33		---	(0.04 - 0.5)	0/33		---	(0.0002 - 0.02)										352
353	2,5-dimethylphenol	95-87-4	1982	0/33		---	(0.04 - 0.5)	0/33		---	(0.0002 - 0.02)										353
354	3,5-dimethylphenol	108-68-9	1982	0/33		---	(0.04 - 0.5)	6/33		0.0005 - 0.0022	(0.0002 - 0.02)										354
355	di (alpha-methylbenzyl)phenol	2769-94-0	1981	0/27		---	(0.03 - 0.05)	6/27		0.16 - 0.3	(0.002 - 0.01)										355
356	N,N'-dimethylformamide	68-12-2	1978	0/24		---	(10 - 50)	0/24		---	(0.1 - 0.3)										356
			1991	18/48		0.1 - 6.6	(0.1)	9/48		0.03 - 0.11	(0.013)						A 21/49		110 - 1100ng/m3	(110)	
			1997														A 30/49		20 - 620ng/m3	(20)	
			1998	5/36	2/12	0.08 - 0.11	(0.07)	10/36	4/12	0.0033 - 0.03	(0.003)										
357	dimethoate	60-51-5	1986	0/39		---	(0.3)	0/39		---	(0.03)										357
			1993	0/30		---	(0.1)	0/30		---	(0.71)	0/30		---	(4)						
358	4,4'-dimethoxydiphenylamine	101-70-2	1977	0/ 6		---	(2 - 5)	0/ 6		---	( 1)										358

**Surveyed Chemical Substances and their Detected Levels in the Environment  
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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#						
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton										
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection							
359	ethyl bromide	74-96-4	1976	0/60		---	(160 - 450)	0/40		---	(1.54 - 2.3)	0/20		---	(0.77 - 2.0)											
			1983															A 15/101		0.002 - 0.059ppb	(0.001 - 0.017)					
			1997															A 5/30		5.9 - 53ng/m3	(5.4)					
			1998															A 0/36	0/12	---	ng/m3	(40)				
360	vinyl bromide	593-60-2	1981	0/15		---	(1)	0/15		---	(0.005 - 0.006)															
361	methyl bromide	74-83-9	1976	0/60		---	(1.8 - 19)	0/40		---	(0.024 - 0.95)	0/20		---	(0.012 - 0.05)											
			1980															A 5/27		0.015 - 0.031ppb	(0.015 - 0.1)					
			1998															A 36/39	13/14	49 - 340ng/m3	(41)					
362	hydrogenated terphenyls	61788-32-7	1977	0/15		---	(10 - 20)	0/15		---	(0.5 - 2)															
363	styrene	100-42-5	1977	0/ 3		---	(2)	0/ 3		---	(0.006)															
			1985	0/27		---	(0.1)	1/21		0.001	(0.001)															
			1986	7/121		0.03 - 0.5	(0.03)	13/125		0.0005 - 0.0075	(0.0005)	28/131		0.0005 - 0.0023	(0.0005)											
			1997	0/36		---	(0.2)	0/33		---	(0.0078)															
			1998															A 42/42	14/14	39 - 2700ng/m3	(33)					
364	dioctyl sebacate	122-62-3	1981	0/21		---	(0.8 - 4)	0/21		---	(0.04 - 0.4)															
365	dibutyl sebacate	109-43-3	1981	0/21		---	(0.8 - 4)	0/21		---	(0.04 - 0.4)															
366	solvent yellow 14	842-07-9	1988	0/72		---	(0.5)	0/72		---	(0.10)															
367	o-terphenyl	84-15-1	1976	0/68		---	(0.004 - 25)	15/63		0.00075 - 0.39	(0.00019 - 0.25)	0/ 1		---	(0.05)											
			1977	0/117		---	(0.0014 - 20)	10/117		0.0012 - 0.1	(0.00016 - 1.6)	0/93		---	(0.000028 - 0.5)											
368	m-terphenyl	92-06-8	1976	0/68		---	(0.013 - 125)	31/63		0.001 - 0.21	(0.001 - 1.25)	0/ 1		---	(0.25)											
			1977	0/117		---	(0.005 - 13)	12/117		0.0021 - 0.19	(0.00069 - 1)	1/93		0.0024	(0.0001 - 1)											
369	p-terphenyl	92-94-4	1976	0/68		---	(0.025 - 125)	21/63		0.001 - 0.18	(0.001 - 1.25)	0/ 1		---	(0.25)											
			1977	0/117		---	(0.01 - 20)	7/117		0.0034 - 0.15	(0.0013 - 1.2)	0/93		---	(0.0002 - 1)											
370	thiabendazole	148-79-8	1986	0/27		---	(1)	0/27		---	(0.2)															
371	distearyl thiodipropionate	693-36-7	1981	0/ 9		---	(0.16 - 1)	0/ 9		---	(0.008 - 0.05)															
372	dilauryl thiodipropionate	123-28-4	1981	0/ 9		---	(0.16 - 1)	0/ 9		---	(0.008 - 0.05)															
373	thiourea	62-56-6	1977	0/ 6		---	(1.1 - 400)	0/ 6		---	(0.055 - 1)															
374	4,4'-thiobis(6-tert-butyl-3-methylphenol)	96-69-5	1981	0/18		---	(1 - 5)	0/18		---	(0.01 - 0.2)															

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton					
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection		
375	thiophene	110-02-1	1985	0/24		---	(0.005)	3/24		0.0002 - 0.0015	(0.0001)									375	
376	O,O-diethyl O-2-isopropyl-4-methyl-6-pyrimidyl thiophosphate	333-41-5	1983	0/30		---	(0.1)	0/30		---	(0.005 - 0.019)									376	
			1993												A 0/51		---	ng/m3	(12)		
377	O,O'-diethyl-O-alpha-cyanobenzylideneamino phosphorothioate	14816-18-3	1988	0/72		---	(0.6)	0/72		---	(0.074)	0/72		---	(0.03)	A 0/72		---	ng/m3	(10)	377
378	O,O'-diethyl-O-3,5,6-trichloro-2-pyridyl phosphorothioate	2921-88-2	1983	0/30		---	(0.1)	0/30		---	(0.005 - 0.035)										378
			1988	0/72		---	(0.1)	11/69		0.007 - 0.08	(0.007)	0/72		---	(0.005)	A 0/72		---	ng/m3	(10)	
			1990	0/24		---	(0.1)	9/24		0.0074 - 0.033	(0.005)										
379	O,O-dimethyl O-4-nitro-m-tolyl thiophosphate	122-14-5	1983	0/30		---	(0.0064 - 0.4)	0/30		---	(0.0012 - 0.02)										379
			1993												A 2/45		20 - 45ng/m3	(10)			
380	dieldrin	60-57-1	1974	0/60		---	(0.1)	0/60		---	(0.01)	0/60		---	(0.005)					380	
381	decanol	112-30-1	1979	0/27		---	(5 - 50)	0/27		---	(0.3 - 1)									381	
382	cis-decahydronaphthalene	91-17-8	1984	0/18		---	(0.02 - 0.1)	0/18		---	(0.005 - 0.022)									382	
383	trans-decahydronaphthalene	91-17-8	1984	0/18		---	(0.01 - 0.07)	4/18		0.006 - 0.181	(0.002 - 0.016)									383	
384	decabromodiphenyl ether	1163-19-5	1977	0/15		---	(0.2 - 2.5)	0/15		---	(0.025 - 0.87)										384
			1987	0/75		---	(0.1)	16/60		0.010 - 1.37	(0.007)	0/75		---	(0.005)						
			1988	0/141		---	(0.06)	39/129		0.004 - 6	(0.004)	0/138		---	(0.005)						
			1996	0/33		---	(0.2)	15/33		0.030 - 0.58	(0.025)	0/138		---	(0.005)						
385	decabromobiphenyl	13654-09-6	1989	0/63		---	(0.3)	0/63		---	(0.03)	0/63		---	(0.03)	A 0/38		---	ng/m3	(20)	385
386	tetraethylthiuram disulfide	97-77-8	1992	0/30		---	(2.64)													386	
387	tetraethoxysilane	78-10-4	1992													A 0/18		---	ng/m3	(2.5)	387
388	tetrachloroisophthalonitrile	1897-45-6	1977	0/ 3		---	(10)	0/ 3		---	(0.1)										388
			1991	0/57		---	(0.13)	0/30		---	(0.05)	0/30		---	(0.04)	A 0/51		---	ng/m3	(5)	
389	1,1,2,2-tetrachloroethane	79-34-5	1976	0/60		---	(1 - 50)	0/40		---	(0.05 - 1.0)	0/10		---	(0.2)					389	
390	tetrachloroethylene	127-18-4	1974	5/60		3	(0.2 - 2)									R 0/18		---	ppm	(0.0002 - 0.002)	390
			1975	73/395		0.15 - 9.5	(0.06 - 0.2)									R 3/114		0.0002 - 0.0003ppm	(0.00006 - 0.0002)		
			1979													A 33/45		0.02 - 1.5ppb	(0.004 - 0.12)		
			1980													A 103/135		0.01 - 1.7ppb	(0.004 - 0.12)		
			1983													A 107/108		0.01 - 1.5ppb	(0.008 - 0.02)		
391	cis-N-(1,1,2,2-tetrachloroethylthio)-4-cyclohexene-1,2-dicarboximide	2425-06-1	1980	0/18		---	(0.03 - 0.1)	0/18		---	(0.001 - 0.005)									391	

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton					
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection		
392	2,2',3,3'-tetrachloro-4,4'-diaminodiphenylmethane	42240-73-3	1985	0/30		---	(5)	0/24		---	(0.8)										392
393	3,3',5,5'-tetrachloro-4,4'-diaminodiphenylmethane	25464-95-3	1985	0/30		---	(5)	0/24		---	(0.1)										393
394	2,3,4,6-tetrachlorophenol	58-90-2	1978	0/21		---	(0.04 - 0.3)	0/21		---	(0.003 - 0.03)										394
			1996	0/33		---	(0.25)	0/33		---	(0.009)										
395	1,2,3,4-tetrachlorobenzene	634-66-2	1975	0/100		---	(0.05)	0/100		---	(0.05)	0/95		---	(0.05)	R 0/30		---	ppm	(0.05)	395
			1999														A 36/37	13/13	0.039~ 0.94ng/m <sup>3</sup>	(0.015)	
396	1,2,3,5-tetrachlorobenzene	634-90-2	1975	0/100		---	(0.05)	0/100		---	(0.05)	0/95		---	(0.05)	R 0/30		---	ppm	(0.05)	396
			1999														A 38/39	13/13	0.015~ 0.65ng/m <sup>3</sup>	(0.011)	
397	1,2,4,5-tetrachlorobenzene	95-94-3	1975	0/100		---	(0.05)	0/100		---	(0.05)	0/95		---	(0.05)	R 0/30		---	ppm	(0.05)	397
			1999														A 34/35	12/12	0.019~ 0.40ng/m <sup>3</sup>	(0.018)	
398	tetrahydrothiophene-1,1-dioxide	126-33-0	1976	0/60		---	(0.16 - 1)	0/55		---	(0.007 - 0.260)	0/ 1		---	(0.02)						398
399	tetrahydronaphthalene	119-64-2	1977	0/ 9		---	(0.1 - 1)	0/ 6		---	(0.004 - 0.1)										399
400	tetrahydrofuran	109-99-9	1979	0/33		---	(0.2 - 25)	0/33		---	(0.0001 - 0.033)										400
			1996	0/33		---	(1)										A 5/18		220 - 810ng/m <sup>3</sup>	(110)	
401	tetraphenylstannane	595-90-4	1997	0/159		---	(0.05)	9/126		0.0060 - 0.50	(0.0058)	7/144		0.00098 - 0.0053	(0.00088)						401
402	1,1,2,2-tetrabromoethane	79-27-6	1976	0/60		---	(0.2 - 0.5)	0/40		---	(0.005 - 0.013)	0/20		---	(0.005 - 0.0065)						402
403	tetrabromobisphenol A	79-94-7	1977	0/15		---	(0.02 - 0.04)	0/15		---	(0.0013 - 0.007)										403
			1987	1/75		0.05	(0.03)	14/66		0.002 - 0.150	(0.002)	0/75		---	(0.001)						
			1988	0/150		---	(0.04)	20/130		0.002 - 0.108	(0.002)	0/135		---	(0.001)						
			2000	0/27	0/9		(0.09)	0/27	0/9		(5.5)	0/27	0/9		(20)						
404	tetrabromobiphenyl	40088-45-7	1989	0/63		---	(0.012)	0/63		---	(0.0016)	0/63		---	(0.001)	A 0/38		---	ng/m <sup>3</sup>	(1.0)	404
405	1,2,4,5-tetrabromobenzene	636-28-2	1981	0/18		---	(0.01 - 0.02)	0/18		---	(0.0002 - 0.00025)										405
406	tetrabromomethane	558-13-4	1981	0/15		---	(0.004 - 3)	0/15		---	(0.00078 - 0.012)										406
407	2,2,3,3-tetrafluoropropanoic acid	756-09-2	1984	0/21		---	(0.1 - 2)	0/21		---	(0.001 - 0.02)										407
408	tetramethylthiuram disulfide	137-26-8	1985	0/27		---	(0.9)	0/27		---	(0.02)										408
			1992	0/30		---	(1)														

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton				
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	
409	tetramethylthiuram monosulfide	97-74-5	1985	0/27		---	(0.9)	0/27		---	(0.009)									409
			1992	0/30		---	(1)	0/30		---	(0.02)									
410	terephthalic acid	100-21-0	1975	6/100		0.2 - 0.7	(0.02 - 5)													410
			1983	0/24		---	(2 - 50)	0/24		---	(0.05 - 0.28)									
411	dimethyl terephthalate	120-61-6	1975	1/100		0.16	(0.002 - 0.5)													411
			1982	0/18		---	(0.2 - 0.5)	0/18		---	(0.008 - 0.015)									
412	telodrin	297-78-9	1974	0/60		---	(0.1)	0/60		---	(0.01)	0/60		---		(0.005)				412
413	toxaphene	8001-35-2	1983	0/33		---	(0.3 - 0.6)	0/33		---	(0.01 - 0.04)									413
414	dodecachloro-dodecahydro-dimethanodibenzo-cyclooctene	13560-89-9	1976	4/60		0.4 - 0.6	(0.28 - 0.5)	0/53		---	(0.01 - 0.03)	0/ 2		---		(0.015)				414
415	triallylamine	102-70-5	1981	0/27		---	(1 - 5)	0/27		---	(0.01 - 0.02)									415
416	triethanolamine	102-71-6	1978	0/12		---	(0.3 - 1.3)													416
417	triethylamine	121-44-8	1981	0/27		---	(0.7 - 2)	0/27		---	(0.005 - 0.01)									417
			1991	3/27		0.39 - 0.56	(0.2)	15/33		0.012 - 0.064	(0.012)									
418	triethylbiphenyl	42343-17-9	1976	0/68		---	(3.5 - 40)	0/50		---	(0.5 - 5.0)	0/20		---		(0.70 - 2.0)				418
419	triethylene glycol ethyl ether	112-50-5	1988	0/75		---	(2.2)	0/75		---	(0.24)									419
420	triethylene glycol methyl ether	112-35-6	1988	0/75		---	(4.1)	0/75		---	(0.23)									420
421	trioctylamine	1116-76-3	1981	0/27		---	(1)	0/27		---	(0.005 - 0.01)									421
422	trioctyltin compounds		1984	0/21		---	(1)	0/21		---	(0.07 - 0.14)									422
423	triclosan	3380-34-5	1995	0/33		---	(0.05)	19/24		0.005 - 0.0079	(0.0046)	0/33		---		(0.003)				423
424	trichlorfon	52-68-6	1993	0/33		---	(0.2)	0/33		---	(0.008)	0/33		---		(0.004)				424
425	2,4,5-trichloroaniline	636-30-6	1981	0/15		---	(0.001 - 0.005)	0/15		---	(0.0002 - 0.001)									425
426	2,4,6-trichloroaniline	634-93-5	1981	0/15		---	(0.001 - 0.006)	0/15		---	(0.0002 - 0.001)									426
427	1,1,1-trichloroethane	71-55-6	1974	0/60		---	(0.1 - 2)									R 0/18	---	ppm	(0.0001 - 0.002)	427
			1975	43/395		0.06 - 5.4	(0.05 - 0.4)									R 0/114	---	ppm	(0.00005 - 0.0004)	
			1979													A 26/48	0.02 - 0.71ppb		(0.002 - 0.18)	
			1980													A 78/135	0.01 - 3.2ppb		(0.002 - 0.2)	
			1983													A 95/108	0.010 - 3.40ppb		(0.001 - 0.03)	
428	1,1,2-trichloroethane	79-00-5	1976	0/60		---	(4 - 50)	0/40		---	(0.3 - 1.0)	0/10		---		(0.4)				428
429	2,2,2-trichloro-1,1-ethanediol	302-17-0	1986	0/27		---	(1)	0/21		---	(0.006)									429



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(A Cumulative List for Fiscal Year 1974 - 1998)**

#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#			
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton							
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection				
430	trichloroethylene	79-01-6	1974	1/60		5	(1)											R 0/18	---	ppm	(0.0002 - 0.005)	430	
			1975	75/395		0.29 - 12	(0.2 - 1)												R 2/114	0.0002 - 0.001ppm	(0.0001 - 0.001)		
			1979																A 21/48	0.016 - 5.9ppb	(0.005 - 0.60)		
			1980																A 64/135	0.007 - 2ppb	(0.005 - 1)		
			1983																A 88/108	0.01 - 1.5ppb	(0.01 - 0.13)		
431	trichloroacetic acid	76-03-9	1984	0/21		---	(5)	0/21		---	(0.02 - 0.05)											431	
432	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	1981	0/27		---	(0.002 - 20)	0/27		---	(0.00002 - 0.02)												432
			1983																A 100/100	0.003 - 4.54ppb	(0.0003 - 0.005)		
433	2,4,6-trichloronitrobenzene	18708-70-8	1984	0/24		---	(0.002 - 0.03)	0/24		---	(0.00019 - 0.003)												433
434	1,1,1-trichloro-2,2-bis(4-methoxyphenyl)ethane	72-43-5	1985	0/27		---	(0.01)	0/27		---	(0.02)												434
435	2,4,6-trichlorophenyl-4'-nitrophenyl ether	1836-77-7	1978	0/18		---	(0.006 - 0.03)	0/18		---	(0.0003 - 0.003)												435
			1982	5/54		0.001 - 0.003	(0.001 - 0.2)	8/54	0.0007 - 0.006	(0.0001 - 0.009)													
			1991	0/57		---	(0.35)	0/51	---	(0.043)									A 0/54	---	ng/m3	(21)	
436	2,4,5-trichlorophenoxyacetic acid	93-76-5	1983	0/45		---	(0.01 - 3)	0/45		---	(0.0002 - 0.13)												436
437	2,4,5-trichlorophenol	95-95-4	1978	0/21		---	(0.02 - 0.08)	0/21		---	(0.001 - 0.008)												437
			1996	0/33		---	(0.2)	0/30	---	(0.0063)													
438	2,4,6-trichlorophenol	88-06-2	1978	0/21		---	(0.008 - 0.1)	1/21		0.0008	(0.0006 - 0.01)												438
			1996	0/33		---	(0.15)	1/30	0.012	(0.009)													
439	1,2,3-trichloropropane	96-18-4	1976	0/60		---	(10 - 20)	0/40		---	(0.2 - 2)	0/10		---	(2.4)								439
440	trichlorofluoromethane	75-69-4	1976															A 90/115	0.002 - 0.45ppb	(0.0021)		440	
			1977																A 71/97	0.02 - 0.9ppb	(0.01 - 1)		
441	1,2,3-trichlorobenzene	87-61-6	1975	0/95		---	(0.08 - 0.3)	0/95		---	(0.002 - 0.1)	0/75		---	(0.005 - 0.1)			R 0/24	---	ppm	(0.00008 - 0.0003)	441	
			1979	2/111		0.05 - 0.07	(0.01 - 0.4)	19/111	0.0004 - 0.058	(0.0001 - 0.1)	0/93		---	(0.0001 - 0.1)									
			1986																A 22/73	1.1 - 12ng/m3	(1.0)		
			1999																A 38/38	13/13 0.018~ 11ng/m <sup>3</sup>	(0.015)		

**Surveyed Chemical Substances and their Detected Levels in the Environment  
(A Cumulative List for Fiscal Year 1974 - 1998)**

#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#		
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton						
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection			
442	1,2,4-trichlorobenzene	120-82-1	1975	0/95		---	(0.03 - 0.4)	3/95		0.002 - 0.022	(0.002 - 0.1)	2/75		0.1 - 0.2	(0.0005 - 0.1)	R 0/24		---	ppm	(0.00003 - 0.0004)	442	
			1979	8/111		0.01 - 0.13	(0.01 - 0.4)	33/111		0.0005 - 0.030	(0.0001 - 0.1)	7/93		0.0003 - 0.008	(0.0001 - 0.1)							
			1986														A 63/73		1.2 - 78	ng/m <sup>3</sup>		(1.0)
			1999														A 39/39	13/13	0.12~40	ng/m <sup>3</sup>		(0.009)
443	1,3,5-trichlorobenzene	108-70-3	1975	0/95		---	(0.02 - 0.2)	0/95		---	(0.001 - 0.1)	0/75		---	(0.003 - 0.1)	R 0/24		---	ppm	(0.00002 - 0.0002)	443	
			1979	1/111		0.02	(0.01 - 0.4)	18/111		0.0006 - 0.0247	(0.0001 - 0.1)	1/93		0.012	(0.0001 - 0.1)							
			1986														A 7/73		1.0 - 8.6	ng/m <sup>3</sup>		(1.0)
			1999														A 38/39	13/13	0.036~1.4	ng/m <sup>3</sup>		(0.011)
444	trichloromethane	67-66-3	1974	21/60		1.4 - 70	(1)									R 6/18		0.01 - 0.118	ppm	(0.0002)	444	
			1975	86/359		0.09 - 17	(0.08 - 1)										R 25/114		0.0001 - 0.043	ppm		(0.00008 - 0.001)
			1979														A 22/44		0.023 - 5.0	ppb		(0.02 - 1)
			1980														A 57/132		0.017 - 4.6	ppb		(0.014 - 1)
			1983														A 88/108		0.01 - 2.2	ppb		(0.01 - 0.10)
445	1,1,1-trichloro-2-methyl-2-propanol	57-15-8	1980	0/33		---	(0.02 - 20)	0/33		---	(0.00049 - 0.1)										445	
			1988	0/72		---	(0.5)	0/72		---	(0.06)						A 1/72		57	ng/m <sup>3</sup>		(25)
446	tricyclohexyltin hydroxide	13121-70-5	1986	0/30		---	(2)	0/18		---	(0.04)										446	
447	o-tolidine	119-93-7	1977	0/6		---	(0.02)	0/3		---	(0.002)										447	
448	tris-4-chlorophenylmethanol	3010-80-8	2000	0/39	0/13		(0.0052)	0/33	0/11		(3.2)	0/39	0/13	0.03~0.04	(0.97)						448	
449	tris-4-chlorophenylmethane	3010-80-8	2000	0/39	0/13		(0.0033)	0/39	0/13		(1.7)	0/39	0/13	0.01~0.07	(0.44)						449	
450	1,3,5-tris(2'-hydroxyethyl) isocyanuric acid	839-90-7	1979	0/18		---	(5 - 10)	0/18		---	(0.002 - 0.07)										450	
451	tris(2-hydroxypropyl) amine	122-20-3	1981	0/24		---	(10 - 20)	0/24		---	(0.08 - 0.1)										451	
452	1-tridecyl alcohol	112-70-9	1977	0/6		---	(300)	0/6		---	(6)										452	
453	triphenyltin compounds		1982	0/69		---	(0.1 - 35)	0/69		---	(0.01 - 1.8)										453	
			1988	73/119		0.005 - 0.088	(0.005)	99/129		0.001 - 1.1	(0.001)	118/144		0.02 - 2.6	(0.02)							
454	triphenylmethane	519-73-3	1983	0/33		---	(0.2 - 0.4)	0/33		---	(0.008 - 0.041)										454	
455	tri-n-butylamine	102-82-9	1986	0/30		---	(3)	0/27		---	(0.08)										455	
456	tributyltin compounds		1983	0/75		---	(0.1 - 1)	9/75		0.05 - 0.70	(0.01 - 0.08)										456	
			1984	0/138		---	(0.1 - 10)	32/138		0.006 - 0.91	(0.006 - 0.21)	29/138		0.009 - 0.48	(0.003 - 0.1)							
457	2,4,6-tri-sec-butylphenol	5892-47-7	1984	0/30		---	(0.1 - 0.3)	0/30		---	(0.001 - 0.0071)										457	

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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#			
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton							
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection				
458	2,4,6-tri-tert-butylphenol	732-26-3	1984	0/30		---	(0.04 - 0.08)	3/30		0.0023 - 0.0082	(0.0004 - 0.0019)											458	
459	1,3,5-tri-tert-butylbenzene	1460-02-2	2000	0/39	0/13		(0.00031)	0/33	0/11		(0.3)	0/33	0/11	0.058~ 0.12	(0.43)								459
460	trifluralin	1582-09-8	1994	0/30		---	(0.02)	0/30		---	(0.0025)	0/30		---	(0.001)								460
461	tripropyltin compounds		1982	0/60		---	(0.1 - 2)	0/60		---	(0.01 - 0.12)												461
462	2,4,6-tribromophenyl (2-methyl-2,3-dibromopropyl) ether	36065-30-2	1979	0/21		---	(0.1 - 0.5)	0/21		---	(0.02 - 0.05)												462
463	2,4,6-tribromophenol	118-79-6	1986	0/33		---	(0.006)	2/33		0.0015 - 0.0040	(0.0005)												463
			1996	0/33		---	(0.35)	0/30		---	(0.009)												
464	1,3,5-tribromobenzene	626-39-1	1981	0/18		---	(0.01 - 0.03)	0/18		---	(0.0002 - 0.0003)												464
465	tribromomethane	75-25-2	1976	0/60		---	(0.2 - 26)	0/40		---	(0.005 - 0.35)	0/20		---	(0.005 - 0.0065)								465
			1980												A 0/63		---	ppb	(0.004 - 0.3)				
466	trimethylamine	75-50-3	1986	0/33		---	(3)	4/27		0.13 - 0.63	(0.08)												466
			1991												A 1/48		150ng/m <sup>3</sup>	(150)					
467	3,5,5-trimethyl-2-cyclohexene-1-one	78-59-1	1981	0/36		---	(0.02 - 10)	18/36		0.0006 - 0.0066	(0.0003 - 0.2)												467
			1995	5/165		0.031 - 0.048	(0.0235)	97/154		0.00014 - 0.81	(0.00014)	32/141		0.00023 - 0.017	(0.00021)								
468	2,2,4-trimethyl-1,2-dihydroquinoline	147-47-7	1980	0/42		---	(0.5 - 5)	0/42		---	(0.025 - 0.7)												468
469	tri(alpha-methylbenzyl)phenol	18254-13-2	1981	0/27		---	(0.04 - 0.06)	12/27		0.019 - 0.42	(0.006 - 0.03)												469
470	1,2,3-trimethylbenzene	526-73-8	1976	0/20		---	(0.1)	0/20		---	(0.01)												470
471	1,2,4-trimethylbenzene	95-63-6	1976	0/20		---	(0.1)	0/20		---	(0.01)												471
			1998												A 39/42	13/14	370 - 1000ng/m <sup>3</sup>	(370)					
472	1,3,5-trimethylbenzene	108-67-8	1976	0/20		---	(0.1)	0/20		---	(0.01)												472
			1998												A R74238/38	13/13	90 - 5400ng/m <sup>3</sup>	(40)					
473	2,2,4-trimethyl-1,3-pentanediol diisobutyrate	6846-50-0	1995	5/165		0.10 - 0.16	(0.1)	6/168		0.023 - 0.095	(0.02)	18/156		0.0063 - 0.044	(0.0062)								473
474	trimellitic acid	528-44-9	1986	0/30		---	(1)	0/30		---	(0.03)												474
475	o-tolylamine	95-53-4	1976	8/68		0.14 - 20	(0.1 - 0.6)	27/68		0.002 - 0.013	(0.002 - 0.012)												475
			1985												A 0/72		---	ng/m <sup>3</sup>	(0.05 - 150)				
			1998	0/39	0/13	---	(0.08)	7/36	3/12	0.0054 - 0.0074	(0.0043)												

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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#																																
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton																																				
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection																																	
476	m-toluamine	108-44-1	1976	4/68		0.096 - 0.26	(0.08 - 0.2)	32/68			0.002 - 0.056	(0.001 - 0.004)																																								
			1985															A 0/72										---	ng/m3	(0.02 - 100)																						
			1998	0/39	0/13	---	(0.2)	0/39	0/13	---	(0.01)																																									
477	p-toluidine	106-49-0	1976	11/68		0.032 - 0.18	(0.02 - 0.2)	35/68			0.0007 - 0.090	(0.0004 - 0.0008)																																								
			1985																A 0/72										---	ng/m3	(0.02 - 50)																					
			1998	0/39	0/13	---	(0.09)	0/36	0/12	---	(0.007)																																									
478	p-toluidine-2-sulfonic acid	88-44-8	1980	0/24		---	(10 - 200)	0/24			---	(0.5 - 11)																																								
479	2,3-tolylenediamine	2687-25-4	1978	0/24		---	(1 - 20)	0/24			---	(0.7 - 1.1)																																								
480	2,4-tolylenediamine	95-80-7	1978	0/24		---	(2 - 5)	0/24			---	(1.0 - 2.2)																																								
			1990																A 0/51										---	ng/m3	(270)																					
481	2,6-tolylenediamine	823-40-5	1990																A 0/51										---	ng/m3	(270)																					
482	toluene	108-88-3	1977	0/ 3		---	(2)	0/ 3			---	(0.004)																																								
			1985	9/21		0.10 - 0.23	(0.06)	9/21			0.0004 - 0.010	(0.0004)																																								
			1986	29/91		0.03 - 2.7	(0.03)	46/87			0.0005 - 0.044	(0.0005)	31/105			0.003 - 0.020	(0.003)																																			
			1998																A 42/42	14/14								1100 - 85000ng/m3	(80)																							
483	p-toluenesulfonyl chloride	98-59-9	1977	0/ 6		---	(4 - 10)	0/ 6			---	(0.1 - 0.25)																																								
484	o-toluenesulfonamide	88-19-7	1977	0/ 6		---	(10)	0/ 6			---	(0.005 - 0.048)																																								
			1992	6/84		0.27 - 0.67	(0.2)	6/84			0.0089 - 0.045	(0.008)																																								
485	p-toluenesulfonamide	70-55-3	1992	9/162		0.52 - 0.84	(0.3)	26/162			0.0085 - 0.854	(0.0083)																																								
486	naphthalene	91-20-3	1976	0/20		---	(0.1)	0/20			---	(0.01)																																								
487	1-naphthaleneacetic acid	86-87-3	1984	0/27		---	(0.02 - 0.05)	0/27			---	(0.002 - 0.0063)																																								
488	beta-naphthalenesulfonic acid, formalic condensed, sodium salt		1979	0/21		---	(10 - 100)	0/27			---	(0.2 - 30)																																								
489	1-naphthylamine	134-32-7	1976	0/60		---	(0.1 - 0.7)	7/60			0.007 - 0.046	(0.003 - 0.01)																																								
			1979	0/111		---	(0.014 - 5)	3/111			0.0050 - 0.0055	(0.004 - 0.01)	0/93			---	(0.0007 - 0.05)																																			
			1985					0/147			---	(0.002)																																								
490	2-naphthylamine	91-59-8	1983	0/48		---	(0.02 - 0.1)	5/48			0.0017 - 0.0079	(0.0015 - 0.04)																																								
			1985					6/147			0.0023 - 0.051	(0.002)																																								
491	1,4-naphthoquinone	130-15-4	1985	0/30		---	(4)	0/30			---	(0.05)																																								

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				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection			
492	1-naphthol	90-15-3	1977	0/6		---	(0.4 - 4.5)	0/6		---	(0.04 - 0.29)										492	
			1999	14/30	5/10	0.005~0.049	(0.005)	3/36	1/12	0.033~0.11	(0.0078)	1/33	1/11	0.0096	(0.0031)							
493	2-naphthol	135-19-3	1977	0/6		---	(0.4 - 6)	0/6		---	(0.04 - 0.39)											493
			1999	0/36	0/12	—	(0.009)	0/36	0/12	—	(0.0068)	1/33	1/11	0.014	(0.0051)							
494	nitrilotriacetic acid	139-13-9	1980	2/36		1	(1)	3/36		0.011 - 0.013	(0.005 - 0.02)											494
			1994	1/21		5	(5)	0/21		---	(0.2)	0/18		---	(0.5)							
495	3-nitroacenaphthene	3807-77-0	1984	0/21		---	(0.007 - 0.02)	0/21		---	(0.002 - 0.0071)											495
496	5-nitroacenaphthene	602-87-9	1984	0/21		---	(0.008 - 0.02)	0/21		---	(0.003 - 0.012)											496
497	o-nitroanisole	91-23-6	1976	3/70		0.035 - 0.69	(0.025 - 0.4)	1/58		0.010	(0.001 - 0.010)	0/10		---	(0.002)							497
			1991	0/57		---	(0.37)	1/51		0.027	(0.016)	2/57		0.016 - 0.018	(0.015)							
498	m-nitroanisole	555-03-3	1976	5/62		0.1 - 1.6	(0.05 - 0.1)	1/50		0.015	(0.003 - 0.004)	0/10		---	(0.002)							498
499	p-nitroanisole	100-17-4	1976	0/70		---	(0.08 - 0.2)	0/59		---	(0.006 - 0.02)	1/10		0.013	(0.006)							499
			1991	0/57		---	(0.25)	0/57		---	(0.015)											
500	o-nitroaniline	88-74-4	1978	0/24		---	(0.2 - 0.5)	0/15		---	(0.007 - 0.0167)											500
			1990	0/69		---	(0.19)	0/75		---	(0.04)	0/72		---	(0.014)							
501	m-nitroaniline	99-09-2	1978	0/24		---	(0.3 - 1)	0/15		---	(0.01 - 0.033)											501
502	p-nitroaniline	100-01-6	1978	0/24		---	(0.7 - 1)	0/15		---	(0.02 - 0.033)											502
			1990	0/66		---	(1.5)	0/66		---	(0.18)	0/63		---	(0.062)							
503	m-nitrobenzoic acid	121-92-6	1985	0/33		---	(10)	0/33		---	(0.05)											503
504	nitroethane	79-24-3	1986	0/27		---	(3)	0/27		---	(0.09)											504
505	N-nitrosodiethanolamine	1116-54-7	1994														A 0/30		---	ng/m3	(220)	505
506	N-nitrosodiethylamine	55-18-5	1981	0/36		---	(0.3 - 1)	0/36		---	(0.02 - 0.05)											506
507	4-nitrosodiphenylamine	156-10-5	1977	0/6		---	(1 - 5)	0/6		---	(0.25 - 1)											507
508	N-nitrosodiphenylamine	86-30-6	1990	2/81		0.5 - 0.9	(0.3)	0/81		---	(0.06)	1/51		0.002	(0.002)							508
509	N-nitrosodimethylamine	62-75-9	1981	0/36		---	(0.2 - 2)	0/36		---	(0.01 - 0.05)											509
510	o-nitrotoluene	88-72-2	1976	3/70		0.15 - 0.79	(0.03 - 0.2)	16/50		0.0034 - 0.14	(0.0002 - 0.002)	0/10		---	(0.002)							510
			1986														A 1/73		44ng/m <sup>3</sup>		(20)	
			1991	0/57		---	(0.2)	0/57		---	(0.031)	0/57		---	(0.0075)		A 2/54		130 - 200ng/m3		(70)	

**Surveyed Chemical Substances and their Detected Levels in the Environment  
(A Cumulative List for Fiscal Year 1974 - 1998)**

#	Substance	CAS NO.	Fig. Year	Number of detection and range of detection																#					
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton									
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection						
511	m-nitrotoluene	99-08-1	1976	3/70		0.35 - 0.86	(0.05 - 0.2)	21/50		0.014 - 0.019	(0.004 - 0.01)	0/10		---	(0.004)										
			1986													A 0/73		---	ng/m3	(20)			511		
			1991	0/57		---	(0.2)	0/57		---	(0.017)	0/57		---	(0.0075)										
512	p-nitrotoluene	99-99-0	1976	1/70		0.1	(0.03 - 0.4)	3/59		0.011 - 0.038	(0.002 - 0.01)	0/10		---	(0.002)										
			1986													A 0/73		---	ng/m3	(20)			512		
			1991	1/57		0.21	(0.2)	0/57		---	(0.015)	0/57		---	(0.0075)										
513	1-nitronaphthalene	86-57-7	1980	0/33		---	(0.002 - 0.05)	0/33		---	(0.00004 - 0.0013)													513	
514	1-nitropyrene	5522-43-0	1990	0/159		---	(0.2)	0/159		---	(0.03)	0/147		---	(0.068)	A 38/46				0.0014 - 0.15ng/m3	(0.001)			514	
515	o-nitrophenol	88-75-5	1978	0/30		---	(0.4 - 10)	0/30		---	(0.03 - 0.5)														
			1979	0/111		---	(0.1 - 5)	0/111		---	(0.01 - 0.76)	0/93		---	(0.01 - 0.3)										515
			1994	0/36		---	(0.26)	0/36		---	(0.0026)	1/36		0.0084	(0.005)	A 22/27				1 - 140ng/m3	(1)				
516	m-nitrophenol	554-84-7	1978	0/30		---	(0.08 - 10)	0/30		---	(0.006 - 0.5)														
			1979	0/111		---	(0.04 - 5)	0/111		---	(0.002 - 0.2)	0/93		---	(0.01 - 0.2)										516
			1994	0/36		---	(0.4)	0/36		---	(0.0047)	0/36		---	(0.01)	A 0/27				---	ng/m3	(8)			
517	p-nitrophenol	100-02-7	1978	1/30		0.13	(0.08 - 10)	0/30		---	(0.02 - 0.5)														
			1979	0/111		---	(0.04 - 5)	0/111		---	(0.002 - 0.8)	0/93		---	(0.01 - 0.2)										517
			1994	0/36		---	(0.6)	0/36		---	(0.0052)	0/36		---	(0.005)	A 27/27				1 - 71 ng/m3	(1)				
518	3-nitrofluoranthene	892-21-7	1990	0/159		---	(0.2)	0/159		---	(0.04)	0/144		---	(0.05)	A 10/42				0.013 - 0.19ng/m3	(0.012)			518	
519	1-nitropropane	108-03-2	1979	0/18		---	(50 - 200)	0/18		---	(0.8 - 1.0)														
			1986	0/27		---	(3)	0/27		---	(0.4)														519
520	2-nitropropane	79-46-9	1979	0/18		---	(50 - 200)	0/18		---	(0.3 - 1.0)														
			1986	0/27		---	(3)	0/27		---	(0.2)														520
521	nitrobenzene	98-95-3	1976	27/70		0.1 - 1.4	(0.03 - 0.4)	15/47		0.0095 - 1.9	(0.002 - 0.0035)	10/10		0.003 - 0.58	( --- )										
			1977	22/115		0.13 - 3.8	(0.1 - 30)	19/117		0.009 - 1.5	(0.001 - 1)	9/85		0.003 - 0.005	(0.001 - 0.2)										
			1986													A 1/73				140ng/m <sup>3</sup>	(100)				
			1991	1/153		0.17	(0.15)	2/162		0.047 - 0.07	(0.023)	4/147		0.011 - 0.026	(0.0087)	A 42/49				2.2 - 160ng/m3	(2)				
522	m-nitrobenzenesulfonic acid, sodium salt	127-68-4	1977	0/ 6		---	(6.6 - 10)	0/ 6		---	(0.5 - 0.78)													522	

**Surveyed Chemical Substances and their Detected Levels in the Environment  
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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#	
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton					
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection		
523	5-nitrobenzimidazole	94-52-0	1985	0/30		---	(0.7)	0/30		---	(0.2)										523
524	nitromethane	75-52-5	1986	0/27		---	(1)	0/27		---	(0.06)										524
525	2-nitro-4-methylphenol	119-33-5	1984	0/21		---	(0.1 - 0.3)	0/21		---	(0.01 - 0.054)										525
526	3-nitro-4-methylphenol	2042-14-0	1984	0/21		---	(0.06 - 0.2)	0/21		---	(0.006 - 0.030)										526
527	4-nitro-3-methylphenol	2581-34-2	1984	0/21		---	(0.06 - 0.2)	0/21		---	(0.006 - 0.028)										527
528	5-nitro-2-methylphenol	5428-54-6	1984	0/21		---	(0.08 - 0.2)	0/21		---	(0.008 - 0.039)										528
529	carbon disulfide	75-15-0	1977	0/ 6		---	(0.056 - 0.1)	0/ 6		---	(0.0015 - 0.01)										529
			1992													A 5/51		530 - 1,900ng/m3	(500)		
530	neopentyl glycol	126-30-7	1977	0/ 6		---	(200 - 400)	0/ 6		---	(2)										530
531	nereistoxin	1631-58-9	1993	0/30		---	(0.2)	0/30		---	(0.024)	0/30		---	(0.01)						531
532	cis-nonachlor	5103-73-1	1982	0/126		---	(0.005)	43/126		0.0002 - 0.022	(0.0002 - 0.001)	76/123		0.001 - 0.023	(0.001)						532
			1986													A 0/73		--- ng/m3	(0.7)		
533	trans-nonachlor	39765-80-5	1982	0/126		---	(0.005)	68/126		0.0002 - 0.055	(0.0002 - 0.001)	102/123		0.001 - 0.074	(0.001)						533
			1986													A 16/73		0.52 - 2.8ng/m3	(0.5)		
534	nonanol	143-08-8, 28473-21-4	1979	0/27		---	(5 - 50)	0/27		---	(0.3 - 1)										534
			1995	0/33		---	(4)	3/30		0.304 - 0.392	(0.1)					A 14/18		8.7 - 81ng/m3	(6)		
535	nonylphenol	25154-52-3	1976	0/ 8		---	(5)	0/ 8		---	(0.25)										535
			1977	0/ 3		---	(0.4)	3/ 3		0.05 - 0.07	( --- )										
			1997	0/123		---	(1.1)	43/129		0.17 - 1.3	(0.15)										
536	picric acid	88-89-1	1980	0/ 9		---	(1)	0/ 9		---	(0.1 - 0.23)									536	
537	4,4'-bis(4-anilino-6-morpholino-1,3,5-triazine-2-yl)aminostyrene-2,2'-disulfonic acid disodium salt	16090-02-1	1982	0/45		---	(0.6 - 2)	13/45		0.04 - 0.2	(0.05 - 0.12)										537
538	2,4-bis(ethylamino)-6-methylthio-1,3,5-triazine	1014-70-6	1992	6/78		0.1 - 0.27	(0.05)	2/78		0.016 - 0.023	(0.011)	0/75		---	(0.0078)						538
539	bis(2-chloroisopropyl) ether	108-60-1	1984	0/24		---	(0.1)	0/24		---	(0.003 - 0.015)										539
540	bis(2-chloroethyl) ether	111-44-4	1977	0/ 6		---	(2 - 5)	0/ 6		---	(0.5 - 0.6)										540
			1984	0/24		---	(0.07 - 0.1)	0/24		---	(0.003 - 0.008)										
			1995	6/27		0.03 - 0.071	(0.02)	0/33		---	(0.01)	0/33		---	(0.6)						
			1996													A 0/18		--- ng/m3	(56)		

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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton				
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	
541	1,1-bis(p-chlorophenyl)-2,2,2-trichloroethanol	115-32-2	1978	0/24		---	(0.02 - 0.2)	0/24		---	(0.003 - 0.011)									541
542	4,4'-bis(dimethylaminophenyl)methane	101-61-1	1986	0/30		---	(2)	0/24		---	(0.05)									542
543	4,4'-bis(dimethylamino)benzophenone	90-94-8	1985	0/24		---	(0.5)	0/24		---	(0.02)									543
544	4,4'-bis(2-sulfoethyl)biphenyl disodium salt	27344-41-8	1982	15/45		0.1 - 0.7	(0.1 - 0.2)	25/45		0.01 - 2.1	(0.005 - 0.04)									544
545	bis(2,3,3,3-tetrachloropropyl) ether	127-90-2	1981	0/24		---	(0.01 - 0.025)	0/24		---	(0.001 - 0.0029)									545
			1984	0/24		---	(0.001 - 0.002)	0/24		---	(0.00005 - 0.00023)									
546	bis(tribromophenoxy)ethane	37853-59-1	1987	0/75		---	(0.04)	6/60		0.0032 - 0.366	(0.003)	0/75		---	(0.002)					546
547	2,2-bis[4-(2-hydroxyethoxy)-3,5-dibromophenyl]propane	4162-45-2	1986	2/30		0.02 - 0.04	(0.02)	0/30		---	(0.02)									547
548	2,2-bis(4-hydroxyphenyl)propane	80-05-7	1976	0/60		---	(0.05 - 0.1)	0/50		---	(0.0002 - 0.005)	0/10		---	(0.005)					548
			1996	41/148		0.010 - 0.268	(0.01)	79/163		0.0059 - 0.60	(0.005)	7/159		0.015 - 0.287	(0.013)	A 0/18		---	ng/m3 (24)	
549	1,1-bis(t-butylperoxy)-3,3,5-trimethylcyclohexane	6731-36-8	1989	0/69		---	(0.2)	0/69		---	(0.028)	0/63		---	(0.01)					549
			1995	0/33		---	(0.03)	0/3		---	(0.011)	0/33		---	(0.005)					
550	bis(4-bromophenyl) ether	2050-47-7	1984	0/27		---	(0.01 - 0.03)	0/27		---	(0.00005 - 0.013)									550
551	hydrazine	302-01-2	1986	0/30		---	(2)	0/30		---	(0.2)									551
552	2-(2'-hydroxy-3',5'-di-tert-butylphenyl)-5-chlorobenzotriazol	3864-99-1	1980	0/33		---	(0.4 - 5)	0/33		---	(0.02 - 1)									552
553	2-hydroxy-3-naphthoic acid anilide	92-77-3	1984	0/24		---	(0.1 - 0.4)	0/24		---	(0.01 - 0.03)									553
554	2-hydroxy-3-naphthoyl-3-chloro-4,6-dimethoxyanilide	92-72-8	1984	0/24		---	(0.1 - 0.4)	0/24		---	(0.01 - 0.04)									554
555	2-hydroxy-3-naphthoyl-4-chloro-2-methylanilide	92-76-2	1984	0/24		---	(0.1 - 0.4)	0/24		---	(0.01 - 0.03)									555
556	2-hydroxy-3-naphthoyl-5-chloro-2-methoxyanilide	137-52-0	1984	0/24		---	(0.1 - 0.4)	0/24		---	(0.01 - 0.03)									556
557	2-hydroxy-3-naphthoyl-3-nitroanilide	135-65-9	1984	0/24		---	(0.1 - 0.4)	0/24		---	(0.01 - 0.03)									557
558	hydroquinone	123-31-9	1996	0/168		---	(0.36)	36/164		0.02 - 0.76	(0.017)									558
559	2-vinylpyridine	100-69-6	1991													A 7/50		17 - 30ng/m3	(16)	559
560	biphenyl	92-52-4	1976	0/68		---	(0.2 - 10)	0 / 50		---	(0.05 - 1.0)	0/20		---	(0.04 - 0.25)					560
561	piperazine	110-85-0	1986	0/30		---	(30)	1/24		0.07	(0.03)									561
562	piperidine	110-89-4	1986	0/30		---	(10)	0/24		---	(0.03)									562
563	piperophos	24151-93-7	1993													A 0/54		---	ng/m3 (54)	563



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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton								
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection					
564	pyridine	110-86-1	1980	2/9		0.3 - 0.4	(0.1 - 0.2)	6/9		0.006 - 0.031	(0.002 - 0.01)													
			1991	6/36		0.13 - 0.2	(0.1)	18/39		0.0068 - 0.11	(0.005)	19/39		0.0045 - 0.075	(0.003)	A 22/49		24 - 90ng/m <sup>3</sup>	(24)					
			1997													A 43/53		10 - 210ng/m <sup>3</sup>	(10)					
			1998	6/33	2/11	0.29 - 0.41	(0.1)	6/33	2/11	0.013 - 0.019	(0.0092)													
565	pyrene	129-00-0	1989	8/69		0.01 - 0.065	(0.009)	68/71		0.02 - 3.9	(0.006)	10/63		0.0013 - 0.0096	(0.001)	A 39/39		0.26 - 9.07ng/m <sup>3</sup>	(0.2)					
			1999	4/36	2/12	0.006~0.012	(0.006)	39/39	13/13	0.0066~0.54	(0.0062)	8/37	4/13	0.00037~0.0016	(0.00034)	A 39/39	13/13	0.39~8.1ng/m <sup>3</sup>	(0.05)					
566	pyrrolidine	123-75-1	1986	0/30		---	(10)	0/24		---	(0.03)													
567	pyrrole	109-97-7	1981	0/24		---	(2 - 5)	0/24		---	(0.03 - 0.1)													
568	phenanthrene	85-01-8	1977	0/9		---	(0.02 - 5)	9/9		0.009 - 2.8	( --- )													
			1999	0/36	0/12	---	(0.012)	38/39	13/13	0.0058~0.26	(0.0056)	25/39	10/13	0.00072~0.0037	(0.00069)	A 39/39	13/13	1.6~29ng/m <sup>3</sup>	(0.019)					
569	1-phenyl-1-(2,4-dimethylphenyl)ethane	6165-52-2	1980	0/120		---	(0.005 - 20)	3/120		0.022 - 0.027	(0.002 - 1.0)	0/108		---	(0.001 - 2.5)									
570	1-phenyl-1-(3,4-dimethylphenyl)ethane	6196-95-8	1975	0/100		---	(0.13 - 5)	13/100		0.028 - 0.31	(0.025 - 0.25)	0/94		---	(0.02 - 0.25)									
			1977	0/117		---	(0.01 - 5)	12/117		0.002 - 0.03	(0.0013 - 0.3)	14/98		0.00052 - 3.0	(0.0002 - 0.8)									
			1980	0/120		---	(0.005 - 20)	3/120		0.019 - 0.027	(0.002 - 1.0)	0/108		---	(0.001 - 2.5)									
571	phenyltin compounds		1989	14/67		0.03 - 47.3	(0.03)	28/55		0.019 - 1.1	(0.015)	28/54		0.015 - 1.1	(0.015)									
			1998	0/156	0/52	---	(0.01)	31/134	14/46	0.016 - 0.76	(0.016)													
			1999	0/153	0/51	---	(0.007)	28/152	12/51	0.016~0.16	(0.016)	5/134	3/45	0.0041~0.0083	(0.0032)									
572	N-phenyl-1-naphthylamine	90-30-2	1980	0/36		(0.025 - 0.1)		9/36		0.0044 - 0.04	(0.0013 - 0.02)													
			1981	0/126		---	(0.1)	0/126		---	(0.005)	0/123		---	(0.005)									
573	N-phenyl-2-naphthylamine	135-88-6	1976	0/50		---	(3 - 40)	0/40		---	(0.13 - 0.8)	0/20		---	(0.3 - 1.0)									
			1980	0/36		---	(0.025 - 0.1)	10/36		0.0045 - 0.042	(0.0013 - 0.02)													
			1981	0/126		---	(0.1)	27/126		0.005 - 0.074	(0.005)	0/123		---	(0.005)									
574	phenylhydrazine	100-63-0	1986	0/30		---	(2)	0/30		---	(0.2)													
575	o-phenylphenol	90-43-7	1978	0/30		---	(0.02 - 12.5)	0/30		---	(0.02 - 0.68)													
			1999	0/30	0/10	---	(0.008)	0/36	0/12	---	(0.0068)	1/33	1/11	0.013	(0.0032)									
576	m-phenylphenol	580-51-8	1978	0/30		---	(0.02 - 50)	0/30		---	(0.06 - 2.5)													
577	p-phenylphenol	92-69-3	1978	0/30		---	(0.02 - 50)	0/30		---	(0.06 - 2.5)													
			1999	2/27	1/9	0.007~0.009	(0.006)	1/36	1/12	0.002	(0.0016)	1/33	1/11	0.010	(0.002)									

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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#	
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton					
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection		
578	o-phenylenediamine	95-54-5	1978	0/24		---	(5 - 20)	0/24		---	(1.0 - 2.2)									578	
579	m-phenylenediamine	108-45-2	1978	0/24		---	(5 - 20)	0/24		---	(1.0 - 2.2)									579	
580	p-phenylenediamine	106-50-3	1978	0/24		---	(5 - 20)	0/24		---	(1.0 - 2.2)									580	
581	phenothiazine	92-84-2	1986	0/24		---	(0.5)	0/24		---	(1.5)									581	
582	phenol	108-95-2	1977	0/ 9		---	(0.2 - 10)	3/ 9		0.03 - 0.04	(0.01 - 0.1)									582	
			1996	76/136		0.030 - 1.47	(0.03)	110/129		0.0055 - 0.94	(0.0054)	63/133		0.020 - 0.586	(0.02)	A 40/47		50.1 - 760ng/m3	(50)		
			1998	15/30	5/10	0.066 - 0.7	(0.03)	23/29	8/10	0.012 - 0.5	(0.0054)	16/30	8/11	0.024 - 0.062	(0.02)						
583	fenthion	55-38-9	1993	0/51		---	(0.2)	0/51		---	(0.033)	0/51		---	(0.05)	A 0/54		---	ng/m3	(15)	583
584	fthalide	27355-22-2	1996	0/33		---	(0.05)	0/33		---	(0.02)									584	
585	butachlor	23184-66-9	1994	0/39		---	(0.02)	0/39		---	(0.0044)	0/39		---	(0.002)					585	
586	butadiene	106-99-0	1977	0/ 6		---	(0.1 - 5)	0/ 6		---	(0.0005 - 0.005)									586	
587	n-butanol	71-36-3	1979	0/30		---	(100 - 1,000)	0/30		---	(1.0 - 10.0)									587	
			1995	2/33		2.3 - 3.7	(2)	4/33		0.14 - 0.78					A 9/15		51 - 1,300ng/m3	(50)			
588	s-butanol	78-92-2	1979	0/30		---	(100 - 1,000)	0/30		---	(1.0 - 10.0)									588	
			1995	0/33		---	(10)	2/33		0.029 - 0.049	(0.021)										
589	t-butanol	75-65-0	1979	0/30		---	(100 - 1,000)	0/30		---	(1.0 - 10.0)									589	
			1995	0/33		---	(2)	0/33		---					A 12/14		20 - 250ng/m3	(20)			
590	phthalic acid	88-99-3	1983	0/24		---	(1 - 20)	0/24		---	(0.02 - 0.1)									590	
591	phthalate esters		1975	54/115		0.0079 - 77	(0.0079 - 10)													591	
592	diallyl phthalate	131-17-9	1985	0/27		---	(0.2)	0/27		---	(0.02)									592	
593	diethyl phthalate	84-66-2	1985	0/27		---	(0.2)	0/27		---	(0.02)									593	
594	di-2-ethylhexyl phthalate	117-81-7	1974	176/375		0.08 - 15	(0.01 - 2)	224/370		0.003 - 17	(0.003 - 0.2)	92/332		0.01 - 19	(0.02 - 1.0)	R 69/111		0.00006 - 0.018ppm	(0.00006 - 0.002)	594	
			1974														P 1/4		6.3ppm		(0.05)
			1975	58/115		0.02 - 1.1	(0.01 - 3)														
			1982	29/45		0.1 - 0.8	(0.04 - 0.15)	45/45		0.009 - 3.5	(0.001 - 0.007)										
			1985													A 59/62		38 - 790ng/m3	(5 - 50)		
1996	4/33		4.3 - 6.8	(3.9)	16/33		0.18 - 22	(0.15)	9/27		0.15 - 0.96	(0.026)	A 11/18		8 - 323ng/m3	(6)					

**Surveyed Chemical Substances and their Detected Levels in the Environment  
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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#		
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton						
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection			
595	di-n-octyl phthalate	117-84-0	1974	4/355		1 - 41	(0.05 - 50)	3/331		0.72 - 44	(0.00005 - 5)	0/292		---		(0.00005 - 25)	R 1/105		0.012ppm	(0.0005 - 0.050)	595	
			1974														P 0/4		---	ppm	(0.01 - 10)	
			1982	0/45		---	(0.05 - 0.5)	0/45		---	(0.002 - 0.02)											
			1996	0/33		---	(0.2)	3/33		0.28 - 1.41	(0.13)						A 0/18		---	ng/m3	(12)	
596	dicyclohexyl phthalate	84-61-7	1985	0/27		---	(0.4)	0/27		---	(0.05)											596
597	di-i-decyl phthalate	26761-40-0	1974	0/250		---	(0.05 - 10)	0/227		---	(0.00006 - 3.1)	0/200		---		(0.00005 - 5.0)	R 0/73		---	ppm	(0.00006 - 0.010)	597
			1974														P 0/2		---	ppm	(0.01)	
598	diisononyl phthalate	28553-12-0	1996	0/33		---	(4)	0/33		---	(3.5)						A 0/18		---	ng/m3	(72)	598
599	di-i-butyl phthalate	84-69-5	1974	38/375		0.16 - 1.2	(0.01 - 1)	57/350		0.00075 - 3.8	(0.00005 - 0.1)	22/312		0.15 - 0.47		(0.00005 - 0.2)	R 11/111		0.00015 - 0.034ppm	(0.00005 - 0.001)	599	
			1974														P 0/4		---	ppm	(0.01 - 5)	
			1996	0/33		---	(0.2)	0/33		---	(0.026)						A 1/18			3.3ng/m <sup>3</sup>	(2.5)	
600	di-n-butyl phthalate	84-74-2	1974	208/375		0.05 - 36	(0.05 - 40)	154/370		0.001 - 2.3	(0.001 - 0.28)	114/332		0.013 - 2.0		(0.01 - 0.87)	R 68/111		0.00013 - 0.052ppm	(0.0001 - 0.004)	600	
			1974														P 0/4		---	ppm	(0.1 - 5)	
			1975	75/115		0.013 - 21	(0.01 - 3)															
			1982	42/45		0.06 - 1.5	(0.03 - 0.1)	39/45		0.0097 - 0.14	(0.0007 - 0.005)											
			1985														A 56/63			17 - 370ng/m3	(5 - 70)	
			1996	5/30		0.21 - 1.4	(0.2)	7/30		0.15 - 0.58	(0.14)	9/30		0.05 - 0.30		(0.04)	A 13/15			10 - 140ng/m3	(10)	
601	di-i-heptyl phthalate	41451-28-9	1974	23/375		0.12 - 1.1	(0.05 - 10)	30/350		0.008 - 6.5	(0.00005 - 1)	13/312		0.14 - 0.36		(0.00005 - 5.0)	R 22/111		0.00016 - 0.0085ppm	(0.00005 - 0.010)	601	
			1974														P 0/4		---	ppm	(0.01 - 10)	
602	di-n-heptyl phthalate	3648-21-3	1982	3/45		0.2 - 0.4	(0.1 - 0.2)	7/45		0.071 - 0.30	(0.003 - 0.01)											602
			1996	0/33		---	(1)	0/33		---	(1.5)						A 3/15			10 - 17ng/m3	(6)	
603	dimethyl phthalate	131-11-3	1985	0/27		---	(0.1)	0/27		---	(0.01)											603
604	dilauryl phthalate	2432-90-8	1985	0/27		---	(2)	0/27		---	(0.1)											604
605	benzyl butyl phthalate	85-68-7	1985	0/27		---	(0.1)	2/27		0.013 - 0.016	(0.01)											605
			2000	0/138	0/46		(0.14)	34/135	15/45	1.7~134	(15)											
606	o-phthalonitrile	91-15-6	1977	0/ 6		---	(1 - 5)	0/ 6		---	(0.1 - 1)											606
607	1,2-butanediol	584-03-2	1995	0/33		---	(0.2)	3/33		0.009 - 0.013	(0.0061)											607
608	1,3-butanediol	107-88-0	1986	0/24		---	(0.3)	0/24		---	(0.03)											608
609	1,4-butanediol	110-63-4	1986	0/24		---	(2)	0/24		---	(0.09)											609
610	4,4'-butylidene bis(6-tert-butyl-3-methylphenol)	85-60-9	1981	0/21		---	(0.1 - 1)	0/21		---	(0.01 - 0.06)											610

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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#		
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton						
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection			
611	n-butylamine	109-73-9	1981	0/27		---	(2 - 4)	0/27		---	(0.005 - 0.04)										611	
612	p-t-butylbenzoic acid	98-73-7	1985	0/33		---	(4)	6/24		0.02 - 0.05	(0.02)										612	
			1986	2/105		0.2 - 0.3	(0.2)	2/138		0.02 - 0.021	(0.02)	7/108		0.005 - 0.047	(0.005)							
			1996	2/33		0.2 - 0.6	(0.2)	8/33		0.021 - 0.06	(0.02)											
613	N-tert-butyl-2-benzothiazolesulfenamide	95-31-8	1998	0/39	0/13	---	(0.1)	0/36	0/12	---	(0.0047)										613	
614	6-t-butyl-2,4-xyleneol	1879-09-0	1997	0/165		---	(0.5)														614	
615	2-t-butyl-4-(2,4-dichloro-5-isopropoxyphenyl)-1,3,4-oxadiazoline-5-one	19666-30-9	1981	0/15		---	(0.001 - 0.2)	0/15		---	(0.001 - 0.02)										615	
616	butylnaphthalenesulfonic acid	25638-17-9	1981	0/18		---	(0.5 - 15)	0/18		---	(0.025 - 3.2)										616	
617	p-t-butylhydroxyphenol	1948-33-0	1980	0/42		---	(0.2 - 20)	0/42		---	(0.008 - 1.0)										617	
618	p-t-butylphenol	98-54-4	1976	0/68		---	(0.2 - 5)	0/68		---	(0.01 - 0.25)										618	
			1996	0/168		---	(0.714)	0/168		---	(0.1)						A 0/18		---	ng/m3		(11)
			1997	6/141		0.1	(0.08)	0/168		---	(0.04)											
619	2-t-butyl-4-methoxyphenol	121-00-6	1980	0/39		---	(0.03 - 10)	0/39		---	(0.0027 - 0.2)										619	
			2000	0/30	0/10		(0.016)	2/15	1/5	1.1~1.6	(0.92)											
620	2-butoxyethanol	111-76-2	1976	0/60		---	(90 - 100)	0/20		---	(0.4)										620	
			1995	1/168		2.2	(2)	0/168		---	(0.22)											
			2000														A 43/45	15/15	4.8~560	(2.2)		
621	1-n-butoxy-2,3-epoxypropane	2426-08-6	1984	0/24		---	(0.5 - 0.7)	0/24		---	(0.006 - 0.019)										621	
622	fumaric acid	110-17-8	1983	0/24		---	(1 - 50)	0/24		---	(0.02 - 0.25)										622	
623	fluoranthene	206-44-0	1999														A 39/39	13/13	0.58~10ng/m <sup>3</sup>	(0.05)	623	
624	fluorene	86-73-7	1983	0/33		---	(0.03 - 0.4)	27/33		0.003 - 0.091	(0.003 - 0.041)										624	
			1984	8/138		0.07 - 2.5	(0.006 - 1)	94/138		0.0010 - 0.13	(0.0001 - 0.088)	26/138		0.001 - 0.37	(0.0003 - 0.05)							
625	diisopropyl phosphofluoridate	55-91-4	1993														A 0/48		---	ng/m3	(15)	625
626	furfural	98-01-1	1996	0/33		---	(0.4)										A 6/15		42 - 120ng/m3	(40)	626	
627	1-propanol	71-23-8	1995	0/33		---	(3)	4/33		0.11 - 0.14	(0.09)						A 1/18		210ng/m <sup>3</sup>	(200)	627	
628	2-propanol	67-63-0	1995	0/33		---	(8)	4/33		0.5 - 2.64	(0.27)						A 16/18		90 - 10,000ng/m <sup>3</sup>	(50)	628	
629	n-propanolamine	156-87-6	1980	0/27		---	(2.5 - 270)	0/27		---	(0.005 - 1.4)										629	

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton					
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection		
630	1,2-propanediol	57-55-6	1977	0/6		---	(300 - 400)	0/6		---	(2 - 3)									630	
			1986	12/24		0.2 - 0.8	(0.2)	4/24		0.020 - 0.022	(0.02)										
631	propionitrile	107-12-0	1987	0/75		---	(0.7)	0/75		---	(0.006)					A 0/61		---	ng/m <sup>3</sup>	(200)	631
632	propionaldehyde	123-38-6	1987	0/75		---	(0.5)									A 23/66		810 - 14,000	ng/m <sup>3</sup>	(800)	632
633	n-propylamine	107-10-8	1980	0/27		---	(0.5 - 33)	0/27		---	(0.001 - 0.18)										633
634	propylene	115-07-1	1977	2/6		0.1	(0.05 - 5)	0/6		---	(0.0002 - 0.005)										634
635	propyleneimine	75-55-8	1986	0/30		---	(50)	0/24		---	(0.05)										635
636	propylene oxide	75-56-9	1980	0/36		---	(0.2 - 5)	0/12		---	(0.002 - 0.004)										636
			1996													A 30/46		16 - 210	ng/m <sup>3</sup>	(16)	
637	2-propen-1-ol	107-18-6	1995													A 3/15		50 - 60	ng/m <sup>3</sup>	(50)	637
638	o-bromoaniline	615-36-1	1984	0/18		---	(0.003 - 0.1)	0/18		---	(0.0001 - 0.012)										638
639	m-bromoaniline	591-19-5	1984	0/18		---	(0.006 - 0.1)	0/18		---	(0.0004 - 0.012)										639
640	p-bromoaniline	106-40-1	1984	0/18		---	(0.006 - 0.1)	0/18		---	(0.0004 - 0.012)										640
641	1-bromo-3-chloropropane	109-70-6	1999	0/156	0/52	—	(0.0041)	6/147	2/49	0.0022~0.055	(0.004)					A 3/21	2/7	20~34	ng/m <sup>3</sup>	(19)	641
642	bromochloromethane	74-97-5	1976	0/60		---	(0.2 - 1)	0/40		---	(0.005 - 0.065)	0/20		---	(0.005 - 0.01)						642
643	beta-bromostyrene	103-64-0	1985	0/30		---	(0.05)	0/30		---	(0.003)										643
644	4-bromophenyl phenyl ether	101-55-3	1984	0/27		---	(0.15 - 0.5)	0/27		---	(0.0025 - 0.12)										644
645	o-bromophenol	95-56-7	1983	0/33		---	(0.08 - 0.1)	0/33		---	(0.001 - 0.005)										645
646	m-bromophenol	591-20-8	1983	0/33		---	(0.4)	0/33		---	(0.001 - 0.02)										646
647	p-bromophenol	106-41-2	1983	0/33		---	(0.4)	5/33		0.02 - 0.03	(0.001 - 0.02)										647
			1996	0/33		---	(0.07)	0/33		---	(0.011)										
648	1-bromobutane	109-65-9	1981	0/15		---	(3)	0/15		---	(0.012 - 0.02)										648
649	1-bromopropane	106-94-5	1981	0/15		---	(2 - 3)	0/15		---	(0.009 - 0.02)										649
650	2-bromopropane	75-26-3	1997	0/36		---	(0.01)	0/36		---	(0.028)					A 0/57		---	ng/m <sup>3</sup>	(200)	650
			1998													A 0/39	0/13	---	ng/m <sup>3</sup>	(170)	
651	bromobenzene	108-86-1	1981	0/12		---	(10)	0/12		---	(0.2)										651
652	fluorobenzene	462-06-6	1984	0/27		---	(0.01 - 0.04)	0/27		---	(0.00009 - 0.0010)										652
653	basic green 4	569-64-2	1985	0/33		---	(2)	0/27		---	(0.2)										653
654	basic violet 10	81-88-9	1986	0/27		---	(0.2)	0/27		---	(0.02)										654

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton							
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection				
655	hexachloroethane	67-72-1	1976	0/60		---	(0.1 - 5)	0/40		---	(0.01 - 0.3)	0/10		---	(0.3)							655	
656	alpha-hexachlorocyclohexane	319-84-6	1974	3/60		0.1	(0.1)	5/60		0.01	(0.01)	16/60		0.005 - 0.015	(0.005)							656	
657	beta-hexachlorocyclohexane	319-85-7	1974	0/60		---	(0.1)	9/60		0.03 - 0.05	(0.01)	2/60		0.005 - 0.007	(0.005)							657	
658	gamma-hexachlorocyclohexane	58-89-9	1974	0/60		---	(0.1)	9/60		0.01	(0.01)	2/60		0.007 - 0.013	(0.005)							658	
659	delta-hexachlorocyclohexane	319-86-8	1974	0/60		---	(0.1)	4/60		0.01	(0.01)	0/60		---	(0.005)							659	
660	hexachlorocyclopentadiene	77-47-4	1981	0/18		---	(0.2)	0/18		---	(0.02 - 20)											660	
661	hexachlorophene	70-30-4	1981	0/33		---	(0.005 - 5)	33/33		0.005 - 0.42	(0.003)											661	
			1982	0/126		---	(0.005)	45/126		0.006 - 0.500	(0.002 - 0.003)	0/126		---	(0.003)								
			1996	0/33		---	(0.05)	0/33		---	(0.015)												
662	hexachloro-1,3-butadiene	87-68-3	1981	0/18		---	(0.02)	0/18		---	(0.002 - 2)											662	
663	hexachlorohexahydromethanobenzodioxathiepin oxide	115-29-7 959-98-8 33213-65-9	1982	0/39		---	(0.004 - 0.025)* (0.014 - 0.06)	0/39		---	(0.0002 - 0.001)* (0.0007 - 0.003)											663	
			1992														A 0/55		---	ng/m3	(30)		
*alpha-isomer(upper part), beta-isomer(lower part)																							
664	hexachlorobenzene	118-74-1	1974	0/60		---	(0.1)	0/60		---	(0.01)	4/60		0.005 - 0.007	(0.005)							664	
			1975	0/390		---	(0.001 - 0.01)	37/399		0.0002 - 0.12	(0.0001 - 0.005)	110/369		0.0001 - 0.028	(0.0001 - 0.005)								
			1978	6/77		0.0016 - 0.0045	(0.0016)	63/76		0.00011 - 0.48	(0.00011)	73/75		0.0002 - 0.013	(0.00016)								
			1994															A 8/24		1.1 - 3.5ng/m3	(1)		
			1999															A 39/39	13/13	0.013~ 1.1ng/m <sup>3</sup>	(0.013)		
665	hexabromocyclododecane	25637-99-4	1987	0/75		---	(0.2)	3/69		0.02 - 0.09	(0.02)	4/66		0.01 - 0.023	(0.01)							665	
666	hexabromodiphenyl ether	36483-60-0	1987	0/75		---	(0.04)	4/69		0.007 - 0.077	(0.0051)	5/75		0.0038 - 0.014	(0.002)							666	
			1988	0/150		---	(0.04)	4/141		0.0045 - 0.018	(0.0035)	5/144		0.002 - 0.006	(0.002)								
667	hexabromobiphenyl	36355-01-8	1989	0/63		---	(0.05)	0/63		---	(0.008)	0/63		---	(0.01)	A 0/38		---	ng/m3	(4)		667	
668	hexabromobenzene	87-82-1	1977	0/15		---	(0.04 - 0.5)	0/15		---	(0.01 - 0.17)											668	
			1981	0/18		---	(0.01 - 0.1)	3/18		0.0022 - 0.0069	(0.0005 - 0.0025)												
			1982	0/126		---	(0.05)	3/126		0.0031 - 0.0043	(0.0009 - 0.005)	0/126		---	(0.005)								
			2000	1/36	1/12	8.4	(0.0064)	3/33	1/11	24~43	(4.8)	0/33	0/11		(3.2)	A11/28	7/10	0.0041~31	(0.03)				
669	hexamethyleneimine	111-49-9	1986	0/30		---	(5)	0/24		---	(0.03)											669	

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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#		
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton						
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection			
670	hexamethylene tetramine	100-97-0	1983	0/30		---	(50 - 5,000)	0/30		---	(0.3 - 14)									670		
671	4-(4-hexylphenyl)-benzotrile	41122-70-7	1985	0/27		---	(2)	0/27		---	(0.05)									671		
672	hexylene glycol	107-41-5	1980	0/27		---	(2.5 - 30)	0/27		---	(0.025 - 1.4)									672		
			1995	0/33		---	(0.2)	5/32	0.022 - 0.03	(0.0043)												
673	heptachlor	76-44-8	1982	0/125		---	(0.005)	14/87		0.0002 - 0.0037	(0.0002 - 0.0003)	9/110		0.001 - 0.010	(0.001)					673		
			1986														A 0/73		---		ng/m3	(1.0)
674	heptachlor epoxide	1024-57-3	1982	0/126		---	(0.005)	3/126		0.0002 - 0.0006	(0.0002 - 0.001)	28/123		0.001 - 0.006	(0.001)					674		
			1986														A 0/73		---		ng/m3	(0.5)
			1996	0/33		---	(0.05)	0/33		---	(0.021)	0/32		---	(0.005)							
675	heptanol	111-70-6	1979	0/27		---	(5 - 50)	0/27		---	(0.3 - 1)									675		
676	benzidine	92-87-5	1977	0/ 6		---	(0.015)	0/ 3		---	(0.003)									676		
677	benzyl alcohol	100-51-6	1985	0/33		---	(0.2)	3/24		0.010 - 0.013	(0.01)									677		
678	benzaldehyde	100-52-7	1984	0/27		---	(0.5 - 4)	8/27		0.01 - 0.17	(0.01 - 0.1)									678		
679	benzene	71-43-2	1977	0/ 3		---	(2)	0/ 3		---	(0.004)									679		
			1985	11/19		0.02 - 0.9	(0.02)	12/18		0.0005 - 0.0036	(0.0002)											
			1986	19/112		0.03 - 2.1	(0.03)	37/98		0.0005 - 0.030	(0.0005)	37/114		0.003 - 0.088	(0.003)							
680	benzenetricarboxylic acid tris(2-ethylhexyl) ester	3319-31-1	1980	0/45		---	(0.008 - 3)	0/45		---	(0.0039 - 0.02)									680		
681	benz[a]anthracene	56-55-3	1989	0/159		---	(0.1)	112/145		0.0032 - 2.1	(0.003)	1/111		0.0012	(0.001)	A 39/39		0.16 - 11.0ng/m3	(0.1)	681		
			1999	0/39	0/13	—	(0.023)	38/39	13/13	0.0083~0.55	(0.0051)	0/39	0/13	—	(0.00069)							
682	1,4-benzodinitrile	623-26-7	1981	0/15		---	(0.1 - 5)	0/15		---	(0.001 - 0.05)									682		
683	benzothiazole	95-16-9	1983	0/30		---	(0.1 - 0.5)	4/30		0.0016 - 0.0033	(0.0015 - 0.05)									683		
684	benzothiophene	95-15-8 11095-43-5	1998	0/42	0/14	---	(0.05)	11/36	4/12	0.0023 - 0.023	(0.002)	0/42	0/14	---	(0.001)					684		
685	benzotrile	100-47-0	1977	0/ 6		---	(1 - 5)	0/ 6		---	(0.1 - 1)									685		
686	benzo[a]pyrene	50-32-8	1989	0/138		---	(0.1)	122/134		0.005 - 3.7	(0.005)	1/123		0.008	(0.003)	A 31/39		0.31 - 6.37ng/m3	(0.3)	686		
687	benzo[e]pyrene	192-97-2	1989	0/75		---	(0.1)	72/74		0.0009 - 1.8	(0.0008)	0/66		---	(0.003)	A 29/39		0.30 - 5.43ng/m3	(0.3)	687		
			1999	0/39	0/13	—	(0.015)	38/39	13/13	0.0041~0.35	(0.0041)	0/39	0/13	—	(0.00041)	A 30/32	11/11	0.074~3.7ng/m <sup>3</sup>	(0.054)			
688	benzophenone	119-61-9	1981	0/15		---	(0.1 - 0.2)	0/15		---	(0.02)									688		

**Surveyed Chemical Substances and their Detected Levels in the Environment  
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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton				
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	
689	benzo[b]fluoranthene, benzo[j]fluoranthene, benzo[k]fluoranthene *	205-99-2 205-82-3 207-08-9	1989	0/159		---	(0.1)	118/159		0.01 - 5.5	(0.01)	1/120		0.004	(0.003)	A 36/39		0.24 - 16.83ng/m <sup>3</sup>	(0.2)	689
			1999	0/39	0/13	-	(0.018)	38/39	13/13	0.0048~1.1	(0.0048)	4/39	2/13	0.00024~0.00040	(0.00022)	A 36/36	12/12	0.36~7.8ng/m <sup>3</sup>	(0.06)	
*Total of 3 compounds																				
690	benzo[g,h,i]perylene	191-24-2	1989	1/72		0.05	(0.05)	72/72		0.003 - 1.31	(0.003)	1/66		0.016	(0.005)	A 32/39		0.41 - 7.0ng/m <sup>3</sup>	(0.4)	690
			1999	0/39	0/13	-	(0.027)	33/39	12/13	0.0091~0.42	(0.009)	0/33	0/11	-	(0.0002)	A 32/33	11/11	0.10~4.1ng/m <sup>3</sup>	(0.086)	
691	pentaerythritol	115-77-5	1997	0/33		---	(0.52)	0/33		---	(0.06)									691
692	pentachloroaniline	527-20-8	1981	0/15		---	(0.0001 - 0.01)	0/15		---	(0.001 - 0.01)									692
693	pentachloroethane	76-01-7	1984	0/21		---	(0.005 - 0.04)	0/21		---	(0.00003 - 0.00050)									693
694	pentachloronitrobenzene	82-68-8	1981	0/12		---	(0.01)	0/12		---	(0.0005)									694
			1991	0/57		---	(0.42)	0/51		---	(0.039)	0/51		---	(0.035)	A 5/48		6.2 - 13ng/m <sup>3</sup>	(6)	
695	pentachlorofenol	87-86-5	1974	2/55		0.2	(0.1)	10/50		0.08 - 0.36	(0.01 - 0.05)									695
			1996	0/33		---	(0.2)	2/33		0.011 - 0.014	(0.01)									
696	pentachlorobenzene	608-93-5	1975	0/100		---	(0.01)	0/100		---	(0.01)	3/95		0.018 - 0.088	(0.01)	R 0/30		--- ppm	(0.00001)	696
			1979	0/111		---	(0.002 - 0.04)	30/111		0.0001 - 0.011	(0.00001 - 0.01)	3/98		0.001 - 0.002	(0.00001 - 0.01)					
			1994													A 9/24		1.0 - 8.0ng/m <sup>3</sup>	(1)	
			1999													A 39/39	13/13	0.012~1.1ng/m <sup>3</sup>	(0.011)	
697	pentabromobenzene	608-90-2	1981	0/18		---	(0.005 - 0.05)	0/18		---	(0.00005 - 0.001)									697
698	phosalone	2310-17-0	1993	0/54		---	(0.1)	0/54		---	(0.05)	0/54		---	(0.035)	A 0/24		--- ng/m <sup>3</sup>	(9)	698
699	phosmet	732-11-6	1993													A 0/24		--- ng/m <sup>3</sup>	(7)	699
700	fatty acid polyethyleneglycol ester	25322-68-3	1982	0/30		---	(10)													700
701	polychloroterphenyl	61788-33-8	1974	0/60		---	(0.01 - 1)	0/60		---	(0.005)	3/11		0.05 - 0.12	(0.05 - 0.2)					701
			1976	0/156		---	(0.01 - 1)	21/151		0.001 - 0.33	(0.001 - 0.2)	0/39		---	(0.001 - 0.2)					
			1978	0/75		---	(0.002 - 2.5)	37/75		0.001 - 4.7	(0.001 - 1.0)	3/66		0.0003 - 0.003	(0.0002 - 0.1)					
			2000													A 9/12	3/4	0.01~0.0037	(0.001)	
702	polychloronaphthalene	70776-03-3	1976	4/148		0.10 - 0.45	(0.02 - 2)	23/138		0.005 - 0.67	(0.004 - 0.2)	1/39		0.35	(0.005 - 0.05)					702
			1978	3/75		0.008 - 0.04	(0.001 - 1)	15/75		0.02 - 1.0	(0.005 - 0.05)	9/66		0.002 - 0.13	(0.004 - 0.025)					
			1998													A 42/42	14/14	0.011 - 0.86ng/m <sup>3</sup>	(0.001)	



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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#				
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton								
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection					
703	polychlorobiphenyl	1336-36-3	1997															A 63/63		0.044 - 1.5ng/m <sup>3</sup> *	---	703		
			1999															A 45/45	15/15	0.11~ 2.1ng/m <sup>3</sup> *	(0.003)			
*The values are the total of the PCBs																								
704	polyoxyethylene alkyl amide		1983	0/27		---	(4)	0/27		---	(0.7)											704		
705	polyoxyethylene alkyl amine		1983	0/27		---	(5)	0/27		---	(0.5)											705		
706	polyoxyethylene alkyl ether	27306-79-2	1982	0/30		---	(5)	19/30		0.22 - 1.0*	(0.2)											706		
*Investigate the compounds of n=2 -8 mols of ethylene oxide and extract the value for n=3																								
707	polyoxyethylene alkylphenyl ether		1977	3/15		190 - 280	(100)	6/15		7.2 - 30	(4.0)											707		
			1978	25/105		130 - 930	(100)	69/88		2.1 - 50	( 2)													
			1982	1/30		90	(15)	8/30		2.6 - 4.9	(2.0)													
708	nonionic surfactant (polyoxy ethylene type)		1982	17/72		5 - 50	(3 - 10)	54/72		0.16 - 12.4	(0.1 - 0.2)											708		
			1998	7/45	3/15	3.5 - 22	(3)	29/42	10/14	0.086 - 12	(0.082)													
709	polybromobiphenyl		1981	0/27		---	(0.1 - 1)	0/27		---	(0.005 - 0.01)											709		
710	formic aldehyde	50-00-0	1975	0/100		---	(100 - 500)															710		
			1995	0/33		---	(2)																	
711	mirex	2385-85-5	1983	0/27		---	(0.01)	0/27		---	(0.0006 - 0.0024)											711		
712	maneb + zineb + manzeb		2000	0/15	0/5		(0.043)															712		
713	malathion	121-75-5	1993	0/51		---	(0.06)	0/51		---	(0.06)	0/51		---	(0.069)	A 0/54		---	ng/m <sup>3</sup>	(25)		713		
714	maleic acid	110-16-7	1983	0/24		---	(1 - 50)	0/24		---	(0.05 - 0.25)											714		
715	mecoprop	93-65-2	1996	0/33		---	(0.2)	0/33		---	(0.02)											715		
716	methacrylic acid	79-41-4	1987	0/75		---	(6)	0/75		---	(0.14)											716		
717	ethyl methacrylate	97-63-2	1979	0/24		---	(0.005 - 1)	0/24		---	(0.00010 - 0.01)											717		
			1999															A 0/18	0/6	- ng/m <sup>3</sup>	(3.3)			
718	2-Ethylhexylmethacrylate	688-84-6	1999	0/27	0/9		(0.027)	1/33	1/11	0.0022	(0.00077)											718		
719	glycidyl methacrylate	106-91-2	1986	0/30		---	(0.3)	0/24		---	(0.04)											719		
720	2-Hydroxyethylmethacrylate	868-77-9	1999	3/27	1/9	0.12~0.51	(0.025)	0/27	0/9		(0.0014)											720		
721	butyl methacrylate	97-88-1	1979	0/24		---	(0.005 - 1)	0/24		---	(0.00010 - 0.01)											721		
722	methyl methacrylate	80-62-6	1979	0/24		---	(0.005 - 1)	0/24		---	(0.00011 - 0.01)											722		
			1999															A 3/18	1/6	28~ 170ng/m <sup>3</sup>	(5.3)			
723	methacrylonitrile	126-98-7	1987	0/75		---	(0.7)	0/75		---	(0.014)									A 0/61		--- ng/m <sup>3</sup>	(40)	723
724	methanol	67-56-1	1995																	A 14/18		3,100 - 49,000ng/m <sup>3</sup>	(2000)	724

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton						
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection			
725	methidathion	950-37-8	1993	0/54		---	(0.1)	0/54		---	(0.09)	0/54		---	(0.11)	A 0/24		---	ng/m3	(5)	725	
726	N-methylaniline	100-61-8	1976	0/68		---	(0.08 - 0.6)	11/68		0.002 - 0.012	(0.002 - 0.008)										726	
			1990	3/69		0.038 - 0.093	(0.03)	4/66		0.0078 - 0.014	(0.007)	0/69		---	(0.0027)	A 1/51		220ng/m <sup>3</sup>	(150)			
727	methylamine	74-89-5	1986	0/33		---	(2)	12/21		0.046 - 0.213	(0.04)										727	
728	methyl isobutyl carbinol	108-11-2	1980	0/27		---	(2.5 - 8)	0/27		---	(0.025 - 0.4)										728	
729	methyl isobutyl ketone	108-10-1	1980	0/24		---	(4 - 15)	0/24		---	(0.2 - 0.6)										729	
			1995	0/33		---	(1.7)	0/33		---	(0.17)				A 10/51		11,000 - 3,800ng/m <sup>3</sup>	(1,100)				
730	methyl ethyl ketone	78-93-3	1980	0/24		---	(3 - 8)	0/24		---	(0.15 - 0.4)										730	
			1995	8/165		1.2 - 2.5	(1)	66/159		0.03 - 0.93	(0.028)				A 35/53		500 - 1,600ng/m <sup>3</sup>	(500)				
731	methyl ethyl ketone oxime	96-29-7	1978	0/21		---	(10 - 30)	0/18		---	(0.1 - 0.7)										731	
732	2-isopropylphenyl methylcarbamate	2631-40-5	1988	0/75		---	(0.3)	0/69		---	(0.0103)					A 0/72		---	ng/m3	(7.0)	732	
733	o-isopropoxyphenyl methyl carbamate	114-26-1	1988	0/75		---	(0.3)	0/69		---	(0.0103)					A 0/72		---	ng/m3	(7.0)	733	
			1994	0/39		---	(0.02)	0/39		---	(0.0033)	0/39		---	(0.001)							
734	3,5-xyllyl methylcarbamate	2655-14-3	1988	0/75		---	(0.22)	0/69		---	(0.0103)					A 0/72		---	ng/m3	(7.0)	734	
735	m-tolyl methylcarbamate	1129-41-5	1988	0/75		---	(0.5)	0/69		---	(0.0103)					A 1/72		8.0ng/m <sup>3</sup>	(7.0)		735	
			1994	0/30		---	(0.02)	0/30		---	(0.003)	0/30		---	(0.003)							
736	1-naphthyl methylcarbamate	63-25-2	1983	0/36		---	(0.05 - 0.06)	0/36		---	(0.002 - 0.023)										736	
			1988	0/69		---	(0.18)	0/69		---	(0.0205)				A 0/72		---	ng/m3	(7.0)			
737	o-s-butylphenyl methylcarbamate	3766-81-2	1988	0/75		---	(0.4)	0/69		---	(0.0103)					A 4/72		7.7 - 48ng/m <sup>3</sup>	(7.0)		737	
738	methyl-N',N'-dimethyl-N-(methylcarbamoyl)oxy-1-thiooxamidate	23135-22-0	1992	0/33		---	(0.1)	0/33		---	(0.01)	0/33		---	(0.005)						738	
739	alpha-methylstyrene	98-83-9	1977	0/ 3		---	(4)	0/ 3		---	(0.01)										739	
			1997	0/36		---	(0.3)	0/33		---	(0.0055)											
			2000													A 20/26	8/9	0.32~110	(1.9)			
740	beta-methylstyrene	5013-15-4	1977	0/ 3		---	(4)	0/ 3		---	(0.01)										740	
741	cis-beta-methylstyrene + o-methylstyrene + p-methylstyrene		2000													A 22/24	8/8	2.5~190	(4.8)		741	
742	m-methylstyrene	100-80-1	1977	0/ 3		---	(4)	0/ 3		---	(0.01)										742	
			2000												A 21/26	7/9	0.3~190	(1.5)				
743	p-methylstyrene	622-97-9	1977	0/ 3		---	(4)	0/ 3		---	(0.01)										743	
744	trans-beta-methylstyrene		2000													A 19/27	8/9	0.75~22	(1.6)		744	

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton								
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection					
745	1-methylnaphthalene	90-12-0	1976	0/28		---	(0.2 - 1)	0/28		---	(0.02 - 0.1)													
			1984														A 65/72		1.9 - 280ng/m3	(0.4 - 5)				745
			1998														A 29/30	10/10	5.1 - 150ng/m3	(2)				
746	2-methylnaphthalene	91-57-6	1976	0/28		---	(0.2 - 1)	0/28		---	(0.02 - 0.1)													
			1984													A 66/72		2.6 - 530ng/m3	(0.5 - 8)				746	
			1998													A 30/30	10/10	3.2 - 310ng/m3	(1.7)					
747	2-methyl-4-nitroaniline	99-52-5	1985	0/36		---	(0.04)	0/36		---	(0.008)												747	
748	4-methyl-2-nitroaniline	119-32-4	1985	0/36		---	(0.02)	0/36		---	(0.008)												748	
749	2-methylpiperidine	109-05-7	1986	0/30		---	(20)	0/24		---	(0.03)												749	
750	2-methylpyridine	109-06-8	1986	0/30		---	(0.3)	7/30			0.0065 - 0.024	(0.005)												
			1987	5/96		0.32 - 2.7	(0.2)	67/94			0.0012 - 0.108	(0.0008)	105/132		0.001 - 0.048	(0.001)								
			1994	19/162		0.10 - 2.4	(0.1)	103/147			0.0011 - 0.024	(0.0011)	106/152		0.0020 - 0.0315	(0.002)	A 46/49		1 - 77ng/m3	(1)				750
	3-methylpyridine, 4-methylpyridine *	108-89-4 108-99-6	1986	0/30		---	(0.6)	6/30			0.0077 - 0.076	(0.007)												
			1987	3/93		0.2 - 0.81	(0.2)	64/94			0.0018 - 0.142	(0.0008)	59/97		0.001 - 0.169	(0.001)								
*Total of 2 compounds																								
751	3-methylpyridine	108-99-6	1994	6/165		0.29 - 0.74	(0.2)	83/135			0.0012 - 0.038	(0.0012)	53/147		0.002 - 0.012	(0.002)	A 45/49		1 - 39ng/m3	(1)			751	
752	4-methylpyridine	108-89-4	1994	11/162		0.14 - 0.78	(0.1)	91/128			0.0012 - 0.051	(0.0012)	57/141		0.0014 - 0.110	(0.0014)	A 38/48		1.0 - 16ng/m3	(1)			752	
753	methyl-t-butyl ether	1634-04-4	1999														A 33/41	13/15	22~330ng/m <sup>3</sup>	(20)			753	
754	4-methyl-3-pentene-2-one	141-79-7	1980	0/24		---	(5 - 50)	0/24		---	(0.3 - 1.0)												754	
755	S-methyl-N-[(methylcarbamoyl)oxy]thioacetimidate	16752-77-5	1992	0/33		---	(0.1)	0/33		---	(0.01)	0/33		---	(0.005)								755	
756	methyl mercaptan	74-93-1	1992														A 0/51		--- ng/m3	(1,000)			756	
757	2-methoxyethanol	109-86-4	1976	0/60		---	(90 - 100)	0/20		---	(0.4)													
			2000													A 8/43	5/15	6~97	(6.1)				757	
758	2-methoxyphenol	90-05-1	1986	0/39		---	(0.2)	4/39			0.010 - 0.020	(0.01)											758	
759	3-methoxyphenol	150-19-6	1986	0/39		---	(0.2)	0/39		---	(0.01)												759	
760	4-methoxyphenol	150-76-5	1986	0/39		---	(0.2)	0/39		---	(0.01)												760	
761	methoxybutanol	2517-43-3	1980	0/27		---	(2.5 - 10)	0/27		---	(0.025 - 0.6)												761	

**Surveyed Chemical Substances and their Detected Levels in the Environment  
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#	Substance	CAS NO.	Fis. Year	Number of detection and range of detection																#
				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton				
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	
762	melamine	108-78-1	1986	21/30		0.1 - 1.6	(0.1)	2/30		0.088 - 0.13	(0.07)									762
			1987	89/150		0.1 - 7.6	(0.1)	36/117		0.01 - 0.32	(0.01)	13/144		0.06 - 0.55	(0.05)					
			1988									5/12		0.09 - 0.23	(0.05)					
			1994	43/150		0.11 - 6.4	(0.11)	29/160		0.015 - 0.40	(0.015)	12/148		0.020 - 0.075	(0.02)	A 12/39		2.0 - 55ng/m3	(2)	
763	2-mercaptoimidazoline	96-45-7	1983	0/33		---	(0.8 - 40)	0/33		---		(0.02 - 0.51)							763	
764	2-mercaptobenzimidazole	583-39-1	1978	0/45		---	(0.25 - 50)	0/39		---		(0.017 - 2.5)							764	
765	2-mercaptobenzothiazole	149-30-4	1977	3/12		0.011 - 0.021	(--- - 0.1)	2/12		0.0021 - 0.037	(0.0009 - 0.02)									765
			1978	0/117		---	(0.01 - 10)	3/111		0.046 - 0.058	(0.002 - 1.2)	0/90		---	(0.002 - 1)					
766	monoethanolamine	141-43-5	1980	0/27		---	(3 - 270)	0/27		---		(0.006 - 1.4)								766
			1994	24/156		0.55 - 2.3	(0.5)	84/147		0.010 - 0.92	(0.01)					A 9/51		13 - 160ng/m3	(12)	
767	monochloroacetic acid	79-11-8	1984	1/21		0.64	(0.2 - 1)	3/21		0.0016 - 0.0033	(0.001 - 0.01)									767
768	mono (alpha-methylbenzyl)phenol	1988-89-2	1978	0/45		---	(0.02 - 10)	0/45		---		(0.0013 - 1)								768
769	2-(morpholiniothio)benzothiazole	102-77-2	1977	0/12		---	(0.02 - 0.04)	0/12		---		(0.0012 - 0.01)								769
770	morpholine	110-91-8	1979	0/33		---	(1 - 50)	0/33		---		(0.01 - 0.5)								770
			1994	9/48		0.28 - 2.51	(0.28)	25/45		0.0024 - 0.051	(0.0024)	0/48		---	(0.03)	A 0/51		--- ng/m3	(20)	
771	organic silicon compounds		1979	0/120		---	(10)	21/120		2.1 - 19.2	(2.0)									771
			1980	0/120		---	(2.5)	68/120		1.0 - 70	(1.0)	89/108		1.0 - 16	(1.0)					
772	organic tin compounds		1975	0/80		---	(10 - 25)													772
773	methyl iodide	74-88-4	1980													A 4/27		0.020 - 0.066ppb	(0.001 - 0.02)	773
774	cresyl diphenyl phosphate	26444-49-5	1981	0/63		---	(0.05)	0/63		---		(0.005)								774
	phosphoric acid, 2-chloro-1-(2,4-dichlorophenyl)vinyl diethyl ester *	470-90-6	1988	0/72		---	(0.2)	6/57		0.006 - 0.02	(0.006)	0/72		---		A 0/72		--- ng/m3	(20)	
775	phosphoric acid, 2-chloro-1-(2,4-dichlorophenyl)vinyl diethyl ester *	470-90-6	1993	0/51		---	(0.37)	0/51		---		(0.063)	0/51		---					775
776	phosphoric acid, 2-chloro-1-(2,4-dichlorophenyl)vinyl diethyl ester *	470-90-6	1993	0/51		---	(0.15)	0/51		---		(0.03)	0/51		---					776
*alpha-isomer(upper part), beta-isomer(lower part) in 1993																				
777	diethyl-p-nitrophenyl phosphate	311-45-5	1993	0/75		---	(0.2)	0/75		---		(0.03)	0/75		---					777
778	2,2-dichloro-1,2-dibromoethyl dimethyl phosphate	300-76-5	1984	0/24		---	(0.5 - 2)	0/24		---		(0.03 - 0.26)								778
779	2,2-dichlorovinyl alcohol dimethyl phosphate	62-73-7	1983	0/30		---	(0.1)	0/30		---		(0.005 - 0.031)								779
			1993												A 4/51		10 - 13ng/m3	(10)		
780	O,O-dimethyl-O-2-chloro-1-(2,4,5-trichlorophenyl)ethenyl phosphate	961-11-5	1988	0/72		---	(0.5)	0/72		---		(0.0103)	0/72		---					780

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton								
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection					
781	triethyl phosphate	78-40-0	1982	0/42		---	(0.005 - 0.1)	0/42		---	(0.00025 - 0.005)										781			
782	trioctyl phosphate (tris(2-ethylhexyl)phosphate)	1806-54-8 78-42-2	1975	0/100		---	(0.04 - 0.50)	3/100		0.02 - 0.100	(0.005 - 0.10)	0/94		---	(0.01 - 0.10)							782		
			1981	0/63		---	(0.01)	43/63		0.002~0.07	(0.001~0.005)													
			1999	0/42	0/14	---	(0.19)	12/39	4/13	0.0051~0.034	(0.005)													
783	trixylenyl phosphate	25155-23-1	1981	0/63		---	(0.2)	13/63		0.07 - 3.7	(0.05)											783		
			1999	0/42	0/14	---	(0.46)	0/39	0/13		(0.035)													
784	tricresyl phosphate	1330-78-5	1975	0/100		---	(0.05 - 1.5)	1/100		0.15	(0.01 - 0.25)	0/96		---	(0.02 - 0.25)							784		
			1978	0/114		---	(0.005 - 2.5)	2/114		1.06 - 2.16	(0.00025 - 0.3)	0/93		---	(0.00025 - 0.15)									
			1993	0/72		---	(0.05)	50/72		0.003 - 0.24	(0.003)	2/75		0.063 - 0.082	(0.022)	A 7/42		3 - 17ng/m3	(3)					
			1998													A 8/46	5/16	1.2 - 2.6ng/m3	(1)					
785	tris(isopropylphenyl)phosphate	26967-76-0	1978	0/24		---	(0.05 - 2)	3/24		0.1	(0.01 - 0.1)										785			
786	tris(2-chloroethyl) phosphate	115-96-8	1975	8/40		0.1 - 0.34	(0.013 - 0.1)	1/20		0.070	(0.025)	0/20		---	(0.025)							786		
			1978	3/114		0.09	(0.01 - 1)	0/114		---	(0.001 - 0.05)	9/93		0.005 - 0.14	(0.001 - 0.05)									
			1993	36/70		0.05 - 1.2	(0.05)	22/72		0.005 - 0.085	(0.005)	9/75		0.012 - 0.29	(0.012)	A 21/39		1 - 7.4ng/m3	(1)					
			1998													A 24/37	12/15	0.29 - 1.4ng/m3	(0.24)					
787	tris(2-chloropropyl)phosphate	6145-73-9	1984	0/24		---	(0.05 - 1)	0/24		---	(0.011 - 0.05)										787			
788	tris(1,3-dichloro-2-propyl)phosphate	13674-87-8	1975	0/100		---	(0.02 - 0.25)	0/100		---	(0.002 - 0.05)	7/94		0.015 - 0.025	(0.005 - 0.05)							788		
			1978	0/114		---	(0.001 - 0.5)	0/114		---	(0.0001 - 0.06)	0/93		---	(0.001 - 0.03)									
			1984	0/24		---	(0.25 - 1)	0/24		---	(0.03 - 0.06)													
			1999	0/42	0/14	---	(0.1)	1/39	1/13	0.0097	(0.008)													
789	tris(dibromopropyl)phosphate	126-72-7	1975	0/114		---	(1)	0/114		---	(0.4 - 10)	0/20		---	(1)						789			
790	tris(butoxyethyl) phosphate	78-51-3	1975	0/100		---	(0.02 - 0.5)	7/80		0.22 - 0.54	(0.002 - 0.10)	0/74		---	(0.005 - 0.10)							790		
			1978	0/114		---	(0.005 - 1.5)	0/114		---	(0.0005 - 0.12)	0/93		---	(0.0005 - 0.15)									
			1993	12/165		0.51 - 2.8	(0.5)	0/168		---	(0.098)	1/156		0.1	(0.1)	A 2/48		50 - 100ng/m3	(50)					
791	tris(2-bromoethyl)phosphate	27568-90-7	1984	0/24		---	(0.13 - 1)	0/24		---	(0.027 - 0.07)										791			
792	triphenyl phosphate	115-86-6	1975	0/100		---	(0.02 - 0.2)	0/100		---	(0.002 - 0.05)	0/100		---	(0.005 - 0.05)						792			

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				Water (ng/ml)				Sediment (ug/g-dry)				Fishes (ug/g-wet)				Others A:Air; R:Rain Water; P:Plankton				
				A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	A/B	C/D	Range of detection	Limit of detection	
793	tributyl phosphate	126-73-8	1975	16/100		0.02 - 0.71	(0.01 - 0.1)	34/100		0.001 - 0.35	(0.001 - 0.025)	31/94		0.003 - 0.026	(0.002 - 0.0025)					
			1977	39/117		0.006 - 0.58	(0.006 - 0.5)	48/117		0.0019 - 0.24	(0.001 - 0.17)	27/85		0.0011 - 0.0093	(0.001 - 0.12)					
			1993	66/148		0.011 - 0.26	(0.011)	51/159		0.002 - 0.13	(0.002)	4/150		0.006 - 0.017	(0.005)	A 9/39		1.2 - 45ng/m3	(1)	
			1998													A 29/40	13/15	0.22 - 7.5ng/m3	(0.2)	
794	trimethyl phosphate	512-56-1	1982	0/42		---	(0.02 - 0.1)	0/42		---	(0.0005 - 0.005)									
			1984	0/24		---	(0.04 - 1)	0/24		---	(0.003 - 0.05)									