

Supporting information

FATE OF PAHs AND PCBs IN THE RIVER ALNA, OSLO (NORWAY)

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Table 2. Values of octanol-water partition coefficients ($\log K_{ow}$) and measured sediment concentrations (ng g^{-1} dry weight) for hexachlorobenzene, pentachlorobenzene and PCBs at Sites 1, 2 and 3 on the Alna River, Oslo (Norway).

Analyte	Log K_{ow}	Concentrations in sediments (ng g^{-1} dry weight)		
		Site 1	Site 2	Site 3
Pentachlorobenzene (PeCB)	5.00	0.33	0.23	3.6
Hexachlorobenzene (HCB)	5.50 ^a	3.6	1.00	5.2
2,2',5-TriCB (CB18)	5.24 ^a	1.2	1.8	365
2,4,4'-TriCB (CB28)	5.67 ^a	0.94	1.2	449
2,4',5-TriCB (CB31)	5.67 ^a	1.1	1.25	562
2',3,4-TriCB (CB33)	5.70	0.54	0.62	264
3,4,4'-TriCB (CB37)	5.70	0.17	0.17	13
2,2',4,4'-TetCB (CB47)	5.85 ^a	0.54	0.66	353
2,2',5,5'-TetCB (CB52)	5.84 ^a	2.00	1.9	882
2,3',4,4'-TetCB (CB66)	6.20 ^a	0.79	0.78	794
2,4,4',5-TetCB (CB74)	6.20	0.43	0.41	429
2,2',4,4',5-PenCB (CB99)	6.39 ^a	0.83	0.41	210
2,2',4,5,5'-PenCB (CB101)	6.38 ^a	3.2	1.21	534
2,3,3',4,4'-PenCB (CB105)	6.65 ^a	0.78	0.32	189
2,3,4,4',5-PenCB (CB114)	6.60	0.03	0.01	20
2,3',4,4',5-PenCB (CB118)	6.74 ^a	1.9	0.69	390
2,3,3',4,5-PenCB (CB122)	6.60	0.03	0.01	6.2
2',3,4,4',5-PenCB (CB123)	6.60	0.03	0.02	9.4
2,2',3,3',4,4'-HexCB (CB128)	6.74 ^a	0.96	0.35	81
2,2',3,4,4',5'-HexCB (CB138)	6.83 ^a	3.9	1.3	368
2,2',3,4,5,5'-HexCB (CB141)	6.82 ^a	1.0	0.34	111.7
2,2',3,4',5',6-HexCB (CB149)	6.67 ^a	3.7	1.3	329
2,2',4,4',5,5'-HexCB (CB153)	6.92 ^a	4.0	1.3	410
2,3,3',4,4',5-HexCB (CB156)	7.18 ^a	0.48	0.14	52
2,3,3',4,4',5'-HexCB (CB157)	7.20	0.08	0.03	7.8
2,3',4,4',5,5'-HexCB (CB167)	7.20	0.19	0.07	19
2,2',3,3',4,4',5-HepCB (CB170)	7.27 ^a	1.2	0.35	126
2,2',3,4,4',5,5'-HepCB (CB180)	7.36 ^a	2.8	0.87	286
2,2',3,4,4',5',6-HepCB (CB183)	7.20	0.60	0.18	53
2,2',3,4,5,5',6-HepCB (CB187)	7.17 ^a	1.3	0.46	109
2,3,3',4,4',5,5'-HepCB (CB189)	7.20	0.06	0.02	5.9
2,2',3,3',4,4',5,5'-OctCB (CB194)	7.80	0.39	0.14	50
2,2',3,3',4,4',5,5',6-NonCB (CB206)	7.70	0.13	0.06	15
DecaCB (CB209)	7.90	< 0.01	0.01	0.8

^aValues were from Hawker and Connell (1988); all others were compiled in Huckins et al. (2006)

References

- J. N. Huckins, J. D. Petty and K. Booij (2006) *Monitors of organic chemicals in the environment: Semipermeable membrane devices*, Springer, New York
- D. W. Hawker and D. W. Connell (1988) Octanol-water partition coefficients of polychlorinated biphenyl congeners. *Environmental Science and Technology*. Vol. 22 pp 382-387.