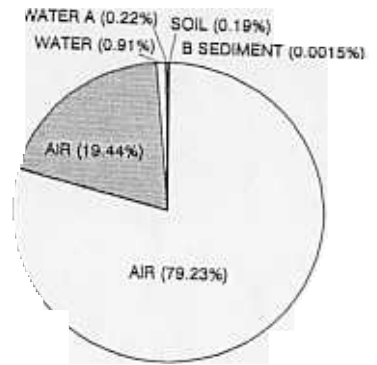
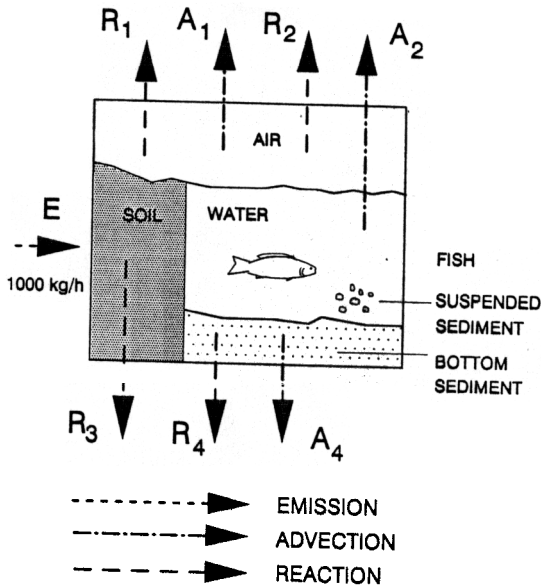


Chemical name: Naphthalene

Level II calculation: (six compartment model)



Distribution of removal rates

Reaction
 Advection

Compartment	Half-life h	D Values		Conc'n mol/m ³	Loss Reaction kg/h	Loss Advection kg/h	Removal
		Reaction mol/Pa h	Advection mol/Pa h				
Air	17	1.64E+09	4.03E+08	1.52E-09	792.344	194.370	
Water	170	1.90E+07	4.65E+06	8.74E-08	9.134	2.241	
Soil	1700	3.94E+06		4.03E-06	1.8963		
Biota (fish)				1.02E-05			
Suspended sediment				2.52E-05			
Bottom sediment	5500	2.70E+04	4.29E+03	8.06E-06	1.30E-02	2.07E-03	1.51E-03
	Total R + A	1.67E+09	4.08E+08 2.08E+09		803.39	196.61 1000	100
	f = 3.759E-06 Pa	Total Amt= 26436 kg		Overall residence time =	26.44 h		
				Reaction time =	32.91 h		
				Advection time =	134.46 h		

Figure 1.8 Fugacity Level II calculation for naphthalene in a generic environment (dimensions defined in Table 1.2).