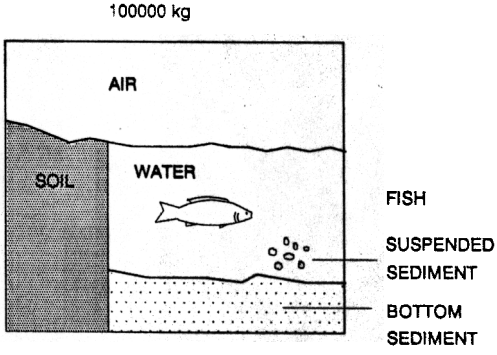
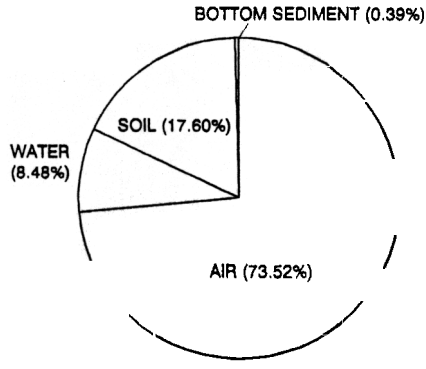
Chemical name: Naphthalene

Level I calculation: (six compartment model)





Distribution of mass

physical-chemical properties:

MW: 128.18

M.P.: 80.5°C

Fugacity ratio: 0.284

vapor pressure: 10.4 Pa

solubility: 31 mg/L

log K_{OW} : 3.37

Compartment	Z	Concentration			Amount	Amount
	mol/m3 Pa	mol/m3	mg/L (or g/m3)	ug/g	kg	%
Air	4.034E-04	5.736E-09	7.352E-07	6.202E-04	73524	
Water	2.325E-02	3.306E-07	4.238E-05	4.238E-05	8475.7	
Soil	1.073E+00	1.525E-05	1.955E-03	8.146E-04	17596.1	
Biota (fish)	2.725E+00	3.875E-05	4.967E-03	4.967E-03	0.9935	9.93E-04
Suspended sediment	6.705E+00	9.532E-05	1.222E-02	8.146E-03	12.219	1.22E-02
Bottom sediment	2.146E+00	3.050E-05	3.910E-03	1.629E-03	391.024	
	Total				100000	100

f = 1.422E-05 Pa

Figure 1.7 Fugacity Level I calculation for naphthalene in a generic environment (dimensions defined in Table 1.2).