TABLE 9-3
SUMMARY OF LIQUID DENSITY AND AQUEOUS SOLUBILITY OF KEY CONSTITUENTS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

CHLORINATED SOLVENT (ABBREVIATION USED HERE)	LIQUID DENSITY (G/CM^3; 20 C)	AQUEOUS SOLUBILITY (PPB; 20 C)	MAXIMUM 1999 CONCENTRATION REPORTED (PPB OR μG/L) AND % OF SOLUBILITY
Tetrachloroethene (PCE)	1.623	120,000	100,000 ~ 83 %
Trichloroethene (TCE)	1.461	1,100,000	830,000 ~ 75 %
1,1-Dichloroethene (DCE11)	1.218	2,250,000	9,458 ~ 0.42%
cis-1,2-Dichloroethene (DCE12c)	1.284	3,500,000	4,600 ~ 0.13%
trans-1,2-Dichloroethene (DCE12tr)	1.257	6,200,000	8,900 ~ 0.14%
Vinyl Chloride (VC)	0.91 (BP= -13.4 C)	1,100,000	"100,000" ~ 9.1 %
1,1,1-Trichloroethane (TCA)	1.35	4,400,000	280,000 ~ 6.4%
1,1-Dichloroethane (DCA)	1.175	5,075.000	15,000 ~ 0.30%
Chloroethane (CA)	0.9214	5,740,000	3,800 ~ 0.07%
Source: Montgomery (1996). The "observed" VC maximum is probably closer to 5,000 ppb (0.45%); "BP" = boiling point; the 100,000 ppm is a dilution detection limit. The PCE maximum also is suspiciously high.			

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