Recrystallization Pre-Lab

Introduction:

The purpose of this experiment is to recrystallize phenanthrene and benzoic acid to purify the compounds. A compound is dissolved in hot solvent in recrystallization which in this experiment, phenanthrene is dissolved in a solvent pair of water and ethanol, and benzoic acid is dissolved in hexane. The solution will be cooled once completely mixed with these solvents. By doing this, the solute's solubility will decrease and will lead to the formation of benzoic acid and phenanthrene crystal.

Physical Data:

| Name | MW (g/mol) | MP (*C) | BP (*C) | Density(g/ml) | Solubility | Hazards |
|--------------|---------------|---------|---------|---------------|--|--|
| Benzoic acid | 122.12 | 122 | 250 | 1.2659 | Soluble in hexane, acetone, less soluble in water | Cause skin irritation harmful if consumed |
| Phenanthrene | 178.23 | 101 | 332 | 1.18 | Insoluble in water, soluble in benzene, chloroform, acetic acid | Moderate health problems harmful if consumed |
| Ethanol | 46.07 | -114.1 | 79 | 0.8 | Soluble in water and benzene | Highly flammable and toxic |
| Hexane | 86.18 | -95 | 69 | 0.7 | Insoluble in water by soluble in ethanol | Highly flammable |

Recrystallization Lab Report Organic Chemistry

AN Whitehead

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