

## 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

**Michael Rajnik**



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