

Name _____

Section _____

Date _____

COLLIGATIVE PROPERTIES DATA SHEET

Part A: Data for Pure Cyclohexane

Mass of empty test tube, stopper & beaker, g _____

Freezing Temperature of cyclohexane, °C _____

Part B: Data for the Benzophenone/Cyclohexane Solution

Mass of test tube, stopper, beaker & cyclohexane, g _____

Mass of cyclohexane, g _____

Mass of test tube, stopper, beaker, benzophenone & cyclohexane, g _____

Mass of benzophenone, g _____

Freezing Temperature of benzophenone/cyclohexane solution, °C _____

Molality of benzophenone/cyclohexane solution, mol·kg⁻¹ _____

K_f for cyclohexane, kg·°C·mol⁻¹ _____

% error _____

Name _____

Section _____

Date _____

**COLLIGATIVE PROPERTIES
DATA SHEET**

Part A: Data for Pure Cyclohexane

Mass of empty test tube, stopper & beaker, g _____

Freezing Temperature of cyclohexane, °C _____

K_f (from Parts A and B), °C·kg·mol⁻¹ _____

Part C: Data for the Unknown Solute/Cyclohexane Solution

Unknown Number: _____

Mass of test tube, stopper, beaker, & cyclohexane, g _____

Mass of test tube, stopper, beaker, & unknown solute/cyclohexane solution, g _____

Mass of cyclohexane, g _____

Mass of unknown solute, g _____

Freezing Temperature of unknown solute/cyclohexane solution, °C _____

Molar mass of unknown solute, g·mol⁻¹ _____