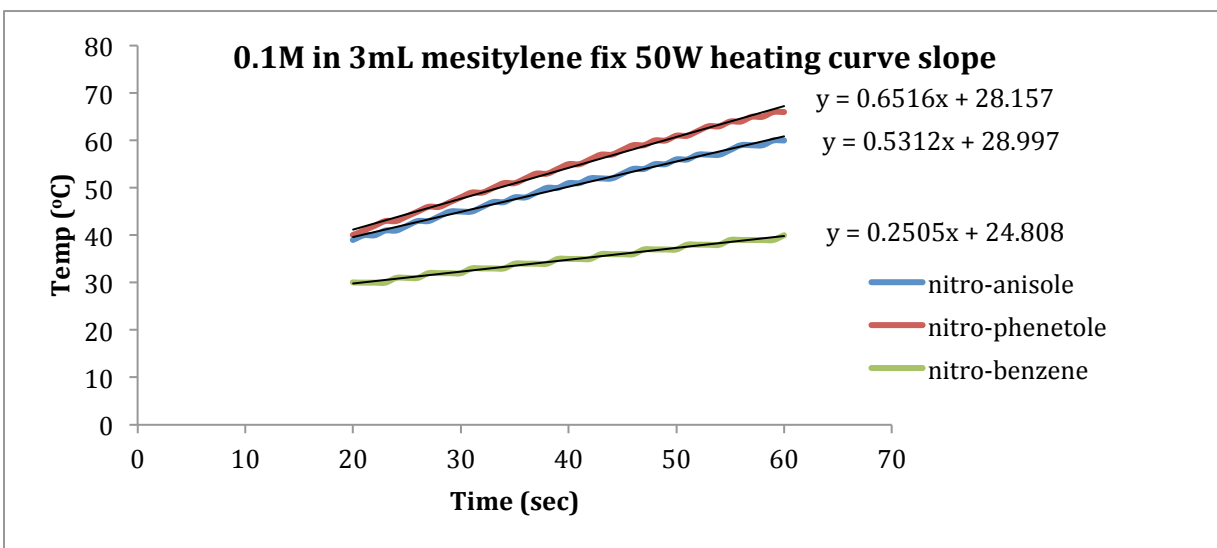


Supplementary Material



The

$$\text{moles of solute} = 3.00 \times 10^{-4}$$

$$\text{moles of mesitylene} = 2.165 \times 10^{-2}$$

$$C_p = 213 \text{ J/mol K for mesitylene}$$

$$P(\text{W/mole}) = \frac{\left(\frac{dT}{dt}\right)(C_p)(n_{\text{moles of solvent}})}{n_{\text{moles of solute}}}$$