Determination of Molar Mass by Freezing Point Depression– Grading Rubric

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| Lab Notebook |  | /15 |
| Procedure/Format | /8 |  |
| Data | /7 |  |
| Informal Report: |  | /45 |
| Title Page | /2 |  |
| Objective | /5 |  |
| Procedure | /3 |  |
| Results/Calculations/ Graphs | /15 |  |
| Discussion | /15 |  |
| Conclusion | /5 |  |
| Post Lab Questions |  | /40 |
| Total |  | /100 |

* Provide summary table of data
* For Calculation: No excel spread sheet. Just do sample calculations
* Make sure all graphs have proper descriptive titles, make sure to put a sub-header of dependent versus independent variable with units
* Draw a line from curve to y-axis showing where you took the freezing points on each graph
* Discussion: Discuss errors that could have occurred in your experiment other than human error and its impact on your results (give numerical examples when appropriate). Compare your freezing point for the pure solvent to that found in the CRC Handbook. Calculate a percent error. Compare your molar mass to that of benzoic acid by calculating a percent error. Explain what the data represents.
* Conclusion: Summarize major findings
* Complete post-lab questions these are almost 50% of the lab grade