

Name:

Surname:

Report of experiment 1

Introduction

.....
.....
.....
.....
.....
.....

The objective of the experiment

.....
.....
.....
.....

Materials and Chemicals

.....
.....
.....
.....
.....
.....
.....
.....

Method of work

.....
.....
.....
.....
.....
.....
.....
.....
.....

If the results of the experiment are recorded in the table answer the following questions

Mass of Cold Water m_1 (g)	Mass of Hot Water m_2 (g)	Temperature of Cold Water T_1 (K)	Temperature of Hot Water T_2 (K)	Equilibrium Temperature $T_{f(\text{exp})}$ (K)
150.08	150.69	297.65	333.5	314.55

1. Calculate the calorimeter's thermal capacity (K_{cal}).

.....
.....
.....
.....
.....
.....
.....
.....

2. If the mass of the calorimeter is 2635 g, calculate the specific heat of the calorimeter (c_{cal}).

.....
.....
.....
.....
.....

3. Determine the quantity of heat energy lost in the system.

.....
.....
.....
.....
.....

4. Determine the quantity of heat energy gained in the system.

.....
.....
.....
.....
.....

5. Conclusion

.....
.....
.....
.....
.....
.....