

Name:

Surname:

Report of experiment 3

Introduction

The objective of the experiment

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

Experiment	Mass of Cold Water m_1 (g)	Mass of Product m_2 (g)	Temperature of Cold Water T_1 (K)	Equilibrium Temperature $T_{f(exp)}$ (K)
(KOH)	100.56	5.69	373.1	298.9
(NH ₄ Cl)	100.17	5.32	292.7	290.1

1. Calculate the number of moles of KOH and NH₄Cl.

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- 2.** Calculate O_{KOH} and $O_{\text{NH}_4\text{Cl}}$

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3. Calculate the enthalpy ΔH_{KOH} and ΔH_{NH4Cl}

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4. Predict the dissolution reaction type for KOH and NH₄Cl and justify

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5. Conclusion

A horizontal dotted line consisting of five parallel rows of dots, spaced evenly apart.