

The sources of error are summarized in a paragraph. It should be written in the past tense without using personal pronouns.

List a systematic error and suggest a way to eliminate it

V. Sources of Error

The percent error calculated for the molar mass of unknown solid A was 38%. This percent error indicated the experimental molar mass was too low. A systemic experimental error explaining this inaccuracy was determined to be loss of calcium carbonate mass while filtering. Future experiments could eliminate this error by measuring the mass of the beaker and any remaining calcium carbonate in the analytic results. This would account for the mass of any calcium carbonate remaining in the beaker. A random experimental error contributing to this inaccuracy was the mass balance precision of 0.01 grams. A mass balance with 0.001 gram precision would increase the precision of the mass data and the accuracy of the results.

Random errors would discuss improving the precision of the measuring device

Portion of rubric showing how you will be assessed for this section

I. Sources of Error

0 0.5 1 1.5 2

		0	0.5	1	1.5	2
<input type="checkbox"/>	Specific sources of error are listed					
<input type="checkbox"/>	Explain impact of errors on results (does error make measured value higher/lower)					
<input type="checkbox"/>	Suggest methods to improve precision in future experiments					
<input type="checkbox"/>	Suggest methods to change equipment or procedures to reduce error in future					