

Results and Calculations:

• Copper Salt:

• Calculations A:

	Trial 1	Trial 2	Trial 3
Mass of sample (g)	0.703 g	0.702 g	0.7011 g
Mass of filter paper (g)	1.092 g	1.100 g	1.0701 g
Mass of filter paper + Copper precipitate (g)	1.403 g	1.309 g	1.3040 g
Mass of Copper precipitate (g)	0.311 g	0.209 g	0.2335 g
Percent of Copper in original sample (%)	44.24 %	34.045 %	33.36 %

• Calculations B:

	Calculations 
Average percent Cu in original sample (%)	$\frac{x_1 + x_2 + x_3}{3} = \frac{44.24 + 34.045 + 33.36}{3} = 37.20\%$
Standard deviation	$S = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n - 1}} = \sqrt{\frac{7.84^2 + 3.16^2 + 3.84^2}{3 - 1}} = 4.895$
Relative Standard deviation	$\frac{S}{\text{mean}} = \frac{4.895}{37.20} = 0.1318$
Reported percent copper	mean $\pm$ S = 37.20 $\pm$ 4.895

• Observations:

Observations: 
The reason of adding water on the precipitate after filtration? to get rid of excess HCl
The colour of the copper precipitate? blue

Gravimetric Determination Of Copper Lab Report

Rachel S Tattersall



Gravimetric Determination Of Copper Lab Report:

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