Calculations

(1) Mass Difference

Mass Difference = Final Mass (g) – Initial Mass (g)
Mass Difference = 5.64g – 3.34g
Mass Difference = 2.30 g

(2) Percent Change in Mass

Percent Change in Mass = \( \frac{\text{Mass Difference (g)}}{\text{Initial Mass (g)}} \times 100\% \)
Percent Change in Mass = \( \frac{2.30g}{5.64g} \times 100\% \)
Percent Change in Mass = 40.78%

(3) Average Percent Change in Mass

Average Percent Change in Mass = \( \frac{\text{Average Mass (Group #1)} + \text{Average Mass (Group #2)} + \ldots}{\text{Total Number of Groups}} \)

Average Percent Change in Mass =

\[
\frac{13.52\% + 13.92\% + 19.67\% + 4.96\% -3.80\% + 15.38\% + 24.44\% + 23.80\% + 18.84\%}{9}
\]

Average Percent Change in Mass = 14.52%