

Abstract

The purpose of this experiment was to use a reaction of NaHCO_3 and CH_3COOH to determine the percent yield of CO_2 . The reaction was $\text{NaHCO}_3 + \text{CH}_3\text{COOH} \rightarrow \text{CO}_2 + \text{H}_2\text{O} + \text{CH}_3\text{COO}^- \text{Na}^+$. Then the weight of non - gas product was used to determine the amount of CO_2 created. The results, though inconsistent, (ranging between 77.7% and 89.3% yield CO_2) averaged a percent yield of CO_2 of 83.1%.