
Preparation of Methane Gas

Lab 33

PURPOSE

To prepare methane gas from sodium acetate

EQUIPMENT

large test tube
ring stand
gas collecting tube
match

one-hole stopper
clamp
bent delivery tube

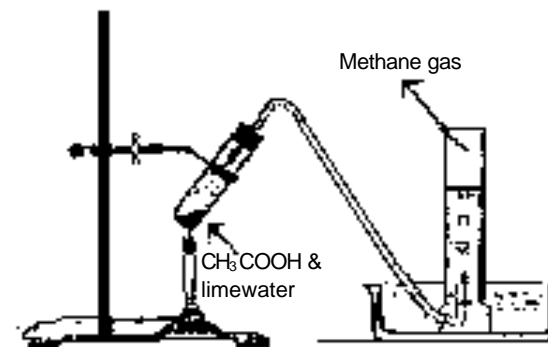
MATERIALS

soda-lime (NaOH +CaO)

sodium acetate (CH_3COONa)

PROCEDURE

1. Take 5g of powdered sodium acetate and 15g of soda-lime.
2. Mix them in a large test tube.
3. Set up the following apparatus.
4. Heat the flask strongly.
5. Match the end of the test tube and observe. Be careful that no gas is coming from the one-hole stopper.



QUESTIONS

1. Write the reaction occurred!
2. What is the function of CaO?
3. Which alkane can you obtain if you use a four-carbon containing carboxylic acid?