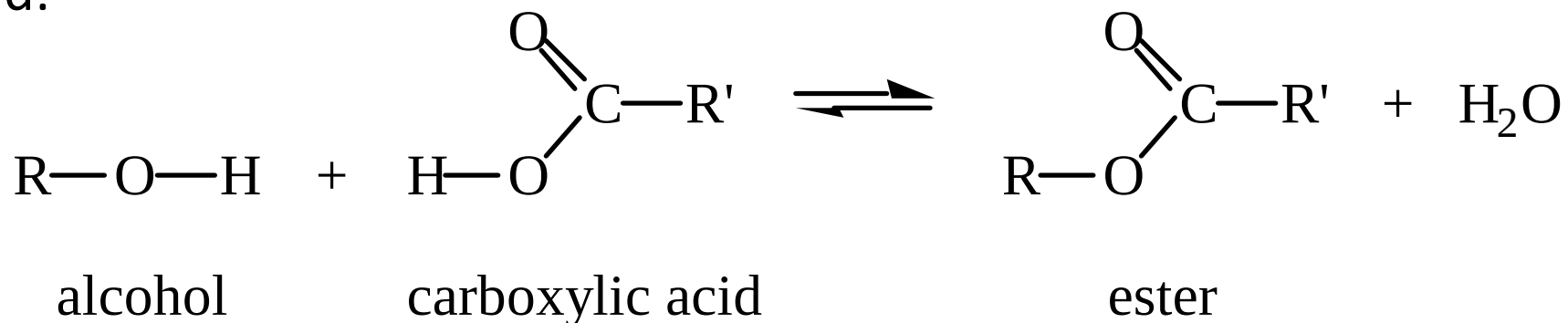


Making Esters

Esters can be prepared by reaction of an alcohol with a carboxylic acid:



The reaction is slow at room temperature and the yield of ester is low.
The rate can be increased by:

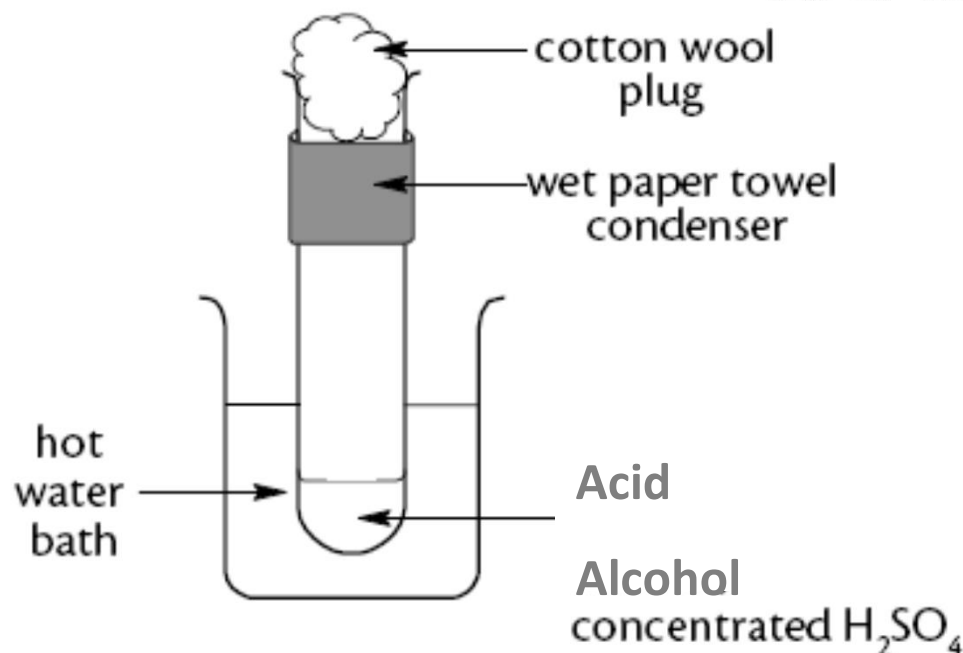
- 1) heating the reaction mixture
- 2) using concentrated sulphuric acid as a catalyst.

The presence of the concentrated sulphuric acid also increases the yield of ester.

Experiment: Making esters



**Collect an
experiment work
card from the
front.**



Notes:

Copy the above diagram and **explain** the purpose of the concentrated sulphuric acid; the wet paper condenser and the water bath.

What **two** pieces of evidence would indicate that an ester had been formed?