



Non-Burning Dollar Bill

The Purpose

To show the activation energy differences of combustion of acetone and paper

Materials

Ethanol (or acetone)	dollar bill
Crucible tongs	matches.
250 mL beaker	

Introduction

A dollar bill is soaked in a mixture of acetone and water. Hold up the bill with tongs, and touch a match to it. A flame will appear, but the dollar bill itself does not burn.

Application

Add 100 mL of acetone and 50 mL of water to a 250 mL beaker. Using the tongs, dip the money in the solution. Make sure all the lights are out and put a match to the bill. Money will burn and remain unmarked.