

## 11. Alternative Solvents

So far in this booklet we have only used water as the solvent for our experiments but there are many examples where other substances act as solvents.



**Notes:** List as many examples as you can of household solvents other than water.

### Dissolving Iodine



Iodine is a shiny black solid which is often used in Science. It would be much more useful if it could be dissolved to form a solution.

<b>Collect:</b>	4 test tubes	bottle of iodine
	Stopper	bottle of meths
	Test tube rack	bottle of potassium iodide solution
	Spatula	bottle of propanone

**Activity:**

1. Put 0.25 of a spatula of iodine into the 4 test tubes in a test tube rack.
2. To each test tube add 2cm depth of one of the liquids and water from the tap then stopper and shake vigorously.
3. Observe whether the iodine crystals are still visible and any colour change.

## Notes:

Copy and Complete the following table and sentence:-

### Iodine Solubility

Solvent	Observation	Soluble/Insoluble

Iodine is soluble in \_\_\_\_\_ .

### Nail Polish

In this experiment we want to find out which solvent dissolves nail polish.



**Collect:** 1 glass rod with  
4 dry nail polish spots  
cotton wool

4 solvents:  
ethyl ethanoate  
white spirit  
oil  
water

**Activity:** Put a few drops of each of the 4 solvents separately on to pieces of cotton wool and try to dissolve the nail polish from the glass rod.

**Notes:**

1. Did all the solvents dissolve the nail polish?
2. Which solvent was best at dissolving the nail polish?
3. Which solvent do you think is a major component of 'Nail Polish Remover'?

