

## Chemistry

# Hydrophilic or Hydrophobic Compound

## using PolyPocket sleeves (Belgium)

### Background

Hydrophilic molecules or molecular components have interactions with water and that are more favourable (thermodynamically) than their interactions with oil or other hydrophobic solvents. They are typically polar and readily dissolve in water.

Photocopy this page and place it in a poly-pocket for use during the experiment.

### You will need...

- ✓ polypocket + a photocopy of this page
- ✓ ethanol,
- ✓ octane,
- ✓ water
- ✓ a magnifying glass (optional)
- ✓ eye droppers

### Follow these steps

1. Put one drop of water on the left circle and one drop of ethanol or octane on the right circle.
2. Then fold paper to slide the two drops towards the large circle in the centre.
3. Observe

### So what happened?

Heptane will not mix with water whereas ethanol will.

### What next?

1. Make models of these compounds using moly-mods
2. Blu tack, markers and post-its can be used to discuss electronegativity, intermolecular bonding.

