

How to make your own lava lamp

Material:



- clear plastic bottle with a tight seal,

- cooking oil,
- dye (eg. tomato puree)
- salt.

Instruction:

Fill the bottle to two-thirds with water. Add a few drops of food coloring.





the surface of the water.









Explanation:



Water and oil are immiscible. The <u>molecules</u> are composed of even smaller components - <u>ato</u> ms

Atoms

have an electric charge - positive, negative or neutral. One part of the water molecule

has the advantage of positive charge and the other - negative. Such molecules

are called polar

molecules

- they like to stick together. Oil molecules are different. The positive and negative charges are distributed fairly evenly - a non-polar

molecule



When you try to mix polar molecules (like water) and non-polar (such as oil), the polar water molecules adhere to each other, the oil molecules are pushed. Sprinkle salt on the surface of the oil sinks to the bottom carrying globs of oil. This is because the salt is more dense than water. However, unlike oil, the salt is soluble in water, so as soon as it is dissolved, the oil rises back to the surface.

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