



Try This **EXPERIMENT** @ Home!

Make your own Hand Sanitiser!

For this easy experiment you will need simple objects found at home or at your local shop or pharmacy. Please only make this under adult supervision and wear your safety goggles (or swimming goggles!) do not inhale or drink the contents!

You will need:

- A container (a small cup, cardboard box or plastic bowl will work perfectly)
- Isocol or Isopropyl Alcohol (anything that is more than 60% alcohol works well)
- Aloe Vera Gel
- Scents (oils or fragrances) these are not essential to have though
- A funnel
- Pump or squeeze bottle (if reusing a bottle wash before use)



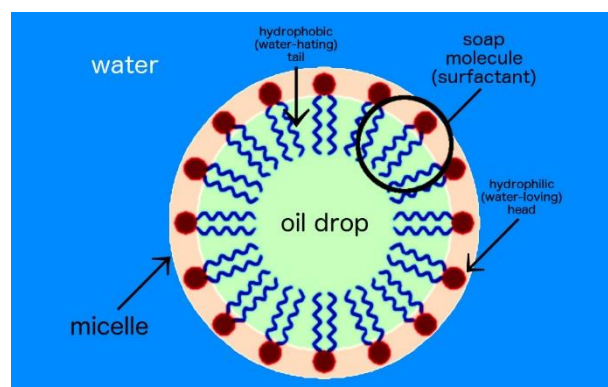
Step 1: Measure out the following ingredients: 1/3-part Aloe Vera gel, 2/3 part 99% Isopropyl Alcohol and 10 drops of fragrance.

Step 2: Add all ingredients into container and stir gently.

Step 3: Using a funnel, pour into pump or squeeze bottle

STOP & THINK – Why do we use hand sanitiser? Does it work on bacteria and viruses? what information can you find? Is DIY hand sanitiser better than washing your hands with soap?

DID YOU KNOW? Viruses are made up of proteins and fats – it's because soap — regular soap, fancy honeysuckle soap, artisan soap, just any soap — absolutely annihilates viruses. It has to do with how the soap molecules interact with the virus. Soap is made up of two-sided molecules. One side is attracted to water; the other side is attracted to fat. And viruses are made up of material surrounded by a coating of proteins and fat. When viruses interact with soap, that fat coating gets ripped out by the soap molecules. Soap literally demolishes viruses. Of course, it takes time for this effect to happen: 20 seconds, to be specific. So, wash your hands!!!



It's important to know not all homemade hand sanitisers are effective at eradicating viruses. Vodka for example, is a common ingredients in many DIY hand sanitiser recipes, however, according to experts we need to use alcohol-based products with a 60% or greater ethanol content (most vodkas have only 40% which is not concentrated enough to kill viruses). Just in case you are wondering, Absinthe is 60%!

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