

# PHENYLE MAKING PROCEDURE

White phenyle (sometimes written as phenyl) is a disinfecting agent made from pine oil. It is made by using an emulsifier- a compound that allows an oil to stably make a solution with water.[1] Without the addition of an emulsifier, the oil and water would continuously separate if the solution sits for too long. White phenyle is used as a cleaning product to remove odors and kill bacteria. It can be made simply by combining pine oil and an emulsifier.

## Part 1

### Making Concentrated White Phenyle

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## 1

**Gather the necessary materials.** For this recipe of concentrated white phenyle, you will be making a solution that is 70% pine oil and 30% emulsifier. To make it, you will need: pine oil concentrate (between 22%-26%), an emulsifier such as Emulsifier OP-95 (how to make emulsifier OP-95) or Pine Oil Emulsifier, a graduated cylinder or measuring cup, and a bottle to contain the finished product.[2]

- Pine oil and emulsifiers can be purchased online.
- Make sure your bottle is large enough to hold the volume you are making. If you're making a large quantity, you will need a larger container.
- The recipe here is to make 1 liter of concentrated white phenyle.



## 2

**Measure out 700 milliliters of pine oil.** You can [calculate](#) the amount of pine oil necessary to make a 70% solution or simply make 1 liter and measure out 700 milliliters. If you wanted to make 2 liters, you would double the amount (1.4 liters pine oil).

- The easiest way to measure volumes is to use a graduated cylinder or measuring cup.



## 3

**Measure out 300 milliliters of the emulsifier.** You want the final solution to be 30% emulsifier, so you will add 300 milliliters to a final volume of 1 liter. Again, if you wanted to make 2 liters, simply double the amount of emulsifier (600 milliliters).

- Clean out the graduated cylinder or measuring cup before measuring out a different solution.



# 4

**Combine the pine oil with the emulsifier and stir them together.** In a bottle large enough to hold both volumes, combine the measured volumes of pine oil and emulsifier. Stir well until the solution clears.[3] The emulsifier will mix with the pine oil and together they will create a clear solution that has a brownish-yellow tint to it.

- At first, the solution will appear milky in color. This is normal. Continue to stir and then let it rest until the solution clears.
- Once the solution clears you will have concentrated white phenyl.

## Part 2

### Diluting Concentrated White Phenyle



# 1

**Gather the necessary materials.** Concentrated white phenyle is usually **diluted** 1:40, but can be made as strong as a 1:20 dilution.<sup>[4]</sup> For dilution, you will need concentrated white phenyle, water, a large plastic container, and a spoon or something to stir with.

- You can make your own concentrated white phenyle or simply purchase it online.
- The plastic container needs to be large enough to hold the volume of diluted solution that you will be making. If you get a container with a lid, you can simply shake the vessel instead of having to stir.



## 2

**Fill your container with 39 liters of water.** To dilute a solution 1:40, you will use 39 liters of water and 1 liter of the concentrated solution. If you don't need to make 40 liters worth of diluted white phenyl, you can always do less.



# 3

**Add 1 liter of concentrated white phenyl to the water.** Measure out 1 liter of the concentrated solution and add it to the 39 liters of water. Stir the solution well until it is thoroughly combined. The solution should appear milky while stirring.

- When a stable emulsion is formed, the solution will appear milky white and have a fresh pine scent.[5]
- This solution can now be used to clean and disinfect your home.

## Part 3

### Using, Storing, and Disposing of White Phenyle Safely



# 1

**Use the solution to clean floors and surfaces.** White phenyle is non-toxic to both humans and pets, but it is recommended to dilute it before using it. Because of its disinfectant properties, white phenyle is a good solution to use for cleaning floors and bathroom or kitchen surfaces.

- White phenyle is safe to use on a variety of surfaces including glass, porcelain, wood, concrete, plastic, and ceramic.
- Avoid ingestion and contact with eyes. Wash hands after using the phenyle solution.



## 2

**Store the solution in a cool, dry place.** It is recommended to store white phenyle in a cool, dry place away from flammable items. White phenyle is flammable, so it's important to keep it away from any source of heat.<sup>[6]</sup>

- Keep the container tightly sealed to prevent spills.



## 3

**Dispose of the solution down the drain with water.** Instructions for disposal include using up the solution as intended and disposing of small amounts down the drain while running water. The label on your version of white phenyle may have more specific instructions on harmful dilutions and proper disposal.<sup>[7]</sup>

- If you're unsure about the concentration of your white phenyle, call the manufacturer and ask them about it.

## Warnings

- White phenyle concentrate is a disinfectant fluid that should be kept away from children. Do not inhale, ingest, or splash it near your eyes.

## References

1. [↑http://www.emulsifiers.org/ViewDocument.asp?ItemId=11&](http://www.emulsifiers.org/ViewDocument.asp?ItemId=11&)
2. [↑https://www.youtube.com/watch?v=5acYqGrCrgo](https://www.youtube.com/watch?v=5acYqGrCrgo)
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