

Extraction of an Essential Oil - PRE Lab Name: Emily Elizabeth Travis

1 .Fill out the table of reagents. Be sure to include all compounds that will be used/isolated during the experiment. Note: The table is expandable.

| Reagent | Molecular Weight (g/mol) | Melting/Boiling Point (°C) | Density (g/mL) | Amount Needed | mol | Hazards | Other Notes |
|----------------|--------------------------|----------------------------|----------------|--|-------|---------------|--------------------------------|
| Clove Oil | 205.64. | BP- 251 | 1.06 | 5g | 0.024 | eye irritant | Save some for TLC |
| Eugenol | 164.2g/mol | MP- -9.1 BP- 253 | 1.0652 g/ml | 30mL after distillation | | eye irritant | Save some for TLC |
| DI H2O | 18.015 g/mol | Mp- 0 BP- 100 | 1 g/cu cm | 60mL | 3.3 | | -- |
| Ethyl Acetate | 88.11 g/mol | MP- -83.6 BP- 77 | 0.9003g/ cu cm | 10% | n/a | skin irritant | Make a 10% with hexane for TLC |
| Hexane | 86.18 g/mol | MP-93.5 BP- 68.7 | 0.6606 g/cu cm | to create 10% ethyl acetate in hexanes | n/a | -- | -- |
| DCM | 84.93 g/mol | MP- -95.1 BP- 40 | 1.33 g/cu cm | 2 x 10mL | n/a | -- | -- |
| Sodium Sulfate | 142.04 g/mol | MP- 884 | 2.671 g/cu cm | varies | n/a | -- | -- |

2 .Type out your detailed procedure for the lab experiment:

Weigh out 5g of ground clove bud.

Set up distillation apparatus

Add cloves, stir bar and 60mL DI H2O into 100mL round bottom flask.

Turn on water to condenser before turning on heating mantle - water needs to go into bottom of condenser and flow out the top.

Set Variable controller to 50%

Distill 30mL distillate (cloudy white liquid), cool apparatus, deconstruct, transfer distillate to long stem separatory funnel.

Extraction Of Essential Oils Lab Report

Michael Hoelscher



Extraction Of Essential Oils Lab Report:

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