

**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 H <sub>2</sub> O	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 H<sub>2</sub>O 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

**IM Harris**



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