

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

Lauren Gardner



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