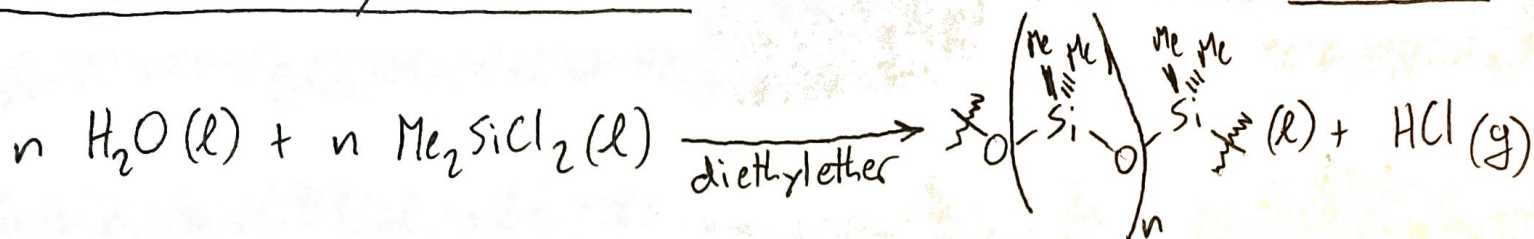


Silicone Polymers Lab

1/12/16



Reagent	Amount	Equivalence	Molecular Weight	Appearance	Hazard
H ₂ O	40 mL	13	18 g/mol	clear liquid	N/A
Me ₂ SiCl ₂	20 mL	1	129 g/mol	clear liquid	caustic
diethylether	40 mL	N/A	N/A	clear liquid	flammable

→ You will have to perform calculations to fill in these columns

Procedure

- Me₂SiCl₂ was dissolved in 40 mL of diethylether inside a 250 mL reaction flask
- slowly add water to the solution
- separate aqueous layer from the organic layer
- wash organic layer ~~until~~ with dilute sodium bicarb solution until the washings become neutral
- wash a final time w/ H₂O
- dry organic layer w/ magnesium sulfate
- remove magnesium sulfate via gravity filtration
- remove diethyl ether by ~~gradua~~ gently heating the solution

Observations

- solution bubbled when H₂O was added & a white gas was formed
- required 4 washings before neutral

Volume: 10 mL % Yield: 50%