

Experiment 9

Oxidation of Fluorenol

Date of Experiment: _____

TA/Section: _____

Name: _____

Prelab Section

Reaction / Major Goal/Aim of Experiment

Background, Techniques and Theory: see attached Prelab writeup.

Outline of Procedure: see attached Prelab writeup

Table of Reactants (fill in any missing amounts)

Compound	Physical Property	Molecular Weight	Amount
9-Fluorenol $C_{13}H_{10}O$	white solid mp 154 °C	188.23 g/mol	0.27 mmol
Chromic Acid Resin CrO_3 - Amberlyst	orange solid	about 4 mmol CrO_3 per g resin	250 mg about 1 mmol
toluene	colorless liquid bp 111 °C		2 mL
9-Fluorenone $C_{13}H_8O$	white solid mp 84 °C		

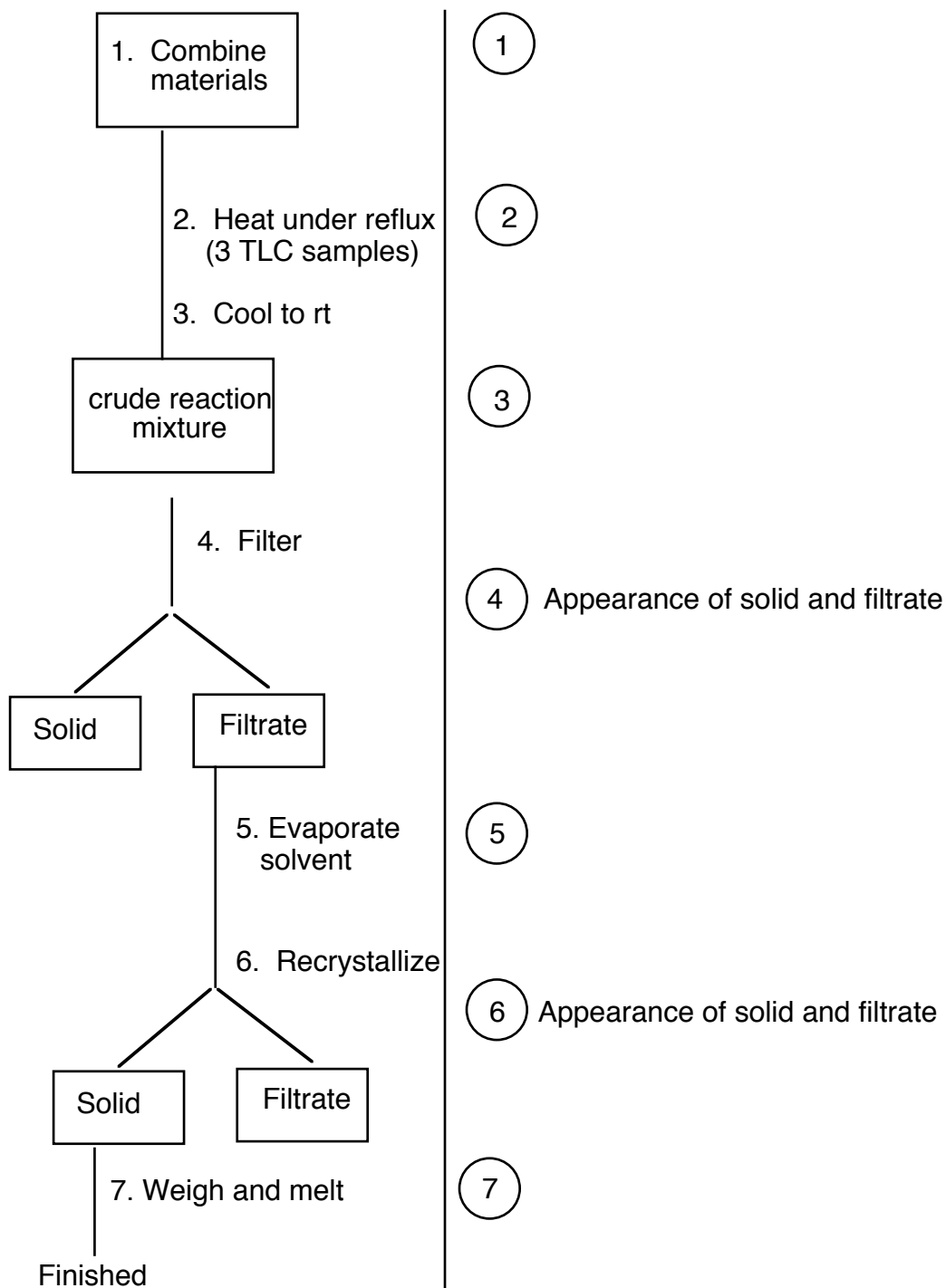
Observations, Results and Writeup

Actual amount of 9-fluorenol: _____ g _____ mmol

Actual amount of resin _____ g _____ mmol

Actual amount of toluene _____ mL

Observations for each step



Amount of product: _____ g _____ mmol

% yield: _____ mp _____ °C

Sketches of Thin Layer Chromatography Plates (standards, 3 reaction plates)

Discussion of Results

Comments and Conclusion: