

Title:

Purpose:

Reaction Scheme:

(5 pts)

Table of Physical Properties

Reagent	Molec. Weight (g/mol)	melting point	boiling point	density ρ (g/ml)	mass/vol. used	moles used	mole ratio	comments (properties)

Product(s)	Molec. Weight (g/mol)	melting point	boiling point	density ρ (g/ml)	mass/vol. used	theoretical yield	mole ratio	comments (properties)

(10 pts)

Theoretical yield calculation: (based on the limiting reagent = ? Use correct sig. figs.)

(5 pts)

Sketches of any experimental set-ups used in the experiment or the workup procedures:

(5 pts)

Prelab Procedure (number each step sequentially, i.e. 1, 2, 3, 4...,
leave room between steps so observations can be paired with
procedure step, add more pages, if necessary) (30 pts)

Detailed Observations (match observations to procedure step)
(30 pts)

Summary of Results (show percent yield with calculation and sig. figs., if taken provide accurate sketches of T.L.C., plate material, eluting solvent, R_f values and how spots were detected, mp's or bp's that might have been taken and any other important observations. (5 pts)

Discussion (very brief summary and comments, include a detailed arrow pushing mechanism for any chemical transformations performed in the experiment, add an additional page, if necessary) (20 pts)

Complete analysis of any spectral data provided or taken during the lab (starting materials and products). You can write directly on spectra and attach pages at end of lab book pages (20 pts)