

LABORATORY NOTEBOOK (Pre-lab)

• OBJECTIVE

- Must clearly state:
 - What will be investigated
 - How it will be investigated
 - How it will be proven

• CHEMICAL EQUATION

- Include the chemical equation from the top of p. 67

• TABLE OF PHYSICAL DATA

- In a single organized table, include the appropriate physical constants and hazard information for the following:

- SOLIDS: *trans*-stilbene and dibromostilbene
- LIQUIDS: Hydrobromic acid, hydrogen peroxide, ethanol, acetone, hexane, and diethyl ether

• REFERENCE TO PROCEDURE

- Include *complete reference* to lab manual, including:
 - full title, edition, authors, and page numbers where actual procedure can be found

LABORATORY NOTEBOOK (In-lab)

○ DATA/CALCULATIONS

- Initial weight of trans-stilbene used
- small filter paper weight
- watch glass weights
- watch glass+ filter+ product weight
- final product weight
- Physical state and color of product
- Theoretical yield calculation
- % yield calculation
- TLC diagram
- give an example of an R_f calculation

○ EXPERIMENTAL PROCEDURE

- In *paragraph form*, describe the procedure that you actually followed during the lab.
- Paragraph must be written in **PAST TENSE, PASSIVE VOICE**.
 - Include any volumes or weights of chemicals used during the experiment.
 - Include any mistakes, accidents, or observations if necessary.