Chem 30CL Section#:_____
Name:_____

Using SciFinder® Scholar to search for preparations of a chemical compound

Instructions:
You can work in pairs on this project. With your partner, go through the worksheet together. It will be for your own benefit if you learn for yourself how to locate relevant literature for a project. You will have to find references for your paper on "Synthesis of Jacobsens Catalyst and Chiral Epoxidation" **(week 4-6)** and for your oral report on "Synthesis of Ferrocene Derivatives" **(week 7-8).**

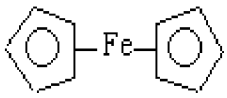
SciFinder Scholar indexes the literature for more than 33 million chemical compounds and includes more than 27 million references to journal articles, conference papers, patents, books, dissertations, and technical reports published since 1907.

UC campuses share 30 ports. Please logoff after using SciFinder Scholar.

Start SciFinder® Scholar by double clicking the SciFinder® Scholar icon on the desktop (Chapman Learning Center, Young Hall). Acknowledge (click **Accept)** the license agreement.

Then click **Explore** so you can draw a chemical structure with SciFinder's structure drawing tools and then find a particular substance or group of substances that match the structure.
Search note: Currently, chemical databases use specific drawing editors. Structures drawn in one database may not import accurately into a subsequent database.

Draw: **Ferrocene**



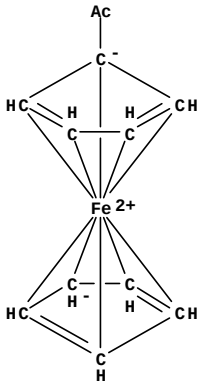
Drawing Tips:

- Mouse over the tool buttons to see names or descriptions for the tools.
- Once you select a tool, information also displays above the drawing area.

Then click **Get Substances** and select **Exact Substance.** To reduce retrieval, also click "Only return substances that are one component; …have more than one reference, and …are commercially available. You should retrieve 2 substances (compounds).
Q: How many references does SciFinder Scholar have for this compound? _____

Q: What is the CAS number **(Registry #)? _____**
Click on the **microscope icon,** if you do not recognize the CAS number (Registry#)

Now click **New Task** on banner at top of screen**;** click **Locate** to find a specific chemical **Substance.** Choose **Substance Identifier** and search **acetylferrocene.**



Click on the **microscope icon** when present to view more information.
Q: What is the CAS number **(Registry #)?**

Q: What is the molecular **Formula**?

Click icons to view "Commercial Sources"; "Regulated Chemicals Listing"; and "Reaction Information".

Q: How many suppliers (**sources**) are there for this compound?

Q: Click the **References icon.** How many references does SciFinder Scholar have for this compound?

On the pop-up window, choose **Preparation, Properties and Spectral Data**.
Q: How many references did SciFinder Scholar find now?

Q: If you are looking for syntheses, how many of them are really relevant to you?

- **For fewer references,** return to the pop-up window and select **Preparation** only**.**
- Also, use SciFinder Scholar's **Analyze/Refine** options to further reduce the number of references to examine. You can **Refine** by **Document Type**, select **Journal,** and **Language**, select **English,** before you page down thru the listing and review titles.
- Click on the microscope to view the abstracts for the references found.

Q: How many do you have to review now?

Q: Select at least two journal article(s) that describe the **preparation of acetylferrocene**.
List **article title(s) and journal reference(s)** including author(s), journal title, volume, issue number, pages, year.

Are these journals available in the SEL/Chemistry Collection?
See **Locating Articles** on the next page for information on searching the UCLA Library Catalog.
Q: What are their call numbers?

Q: Which of the articles are available online?

Locating Journal Articles:
While using SciFinder Scholar to view an online journal article, click on the **paper icon** to open a link to ChemPort; you will be redirected to **UC e-Links** which offers several options for locating journals—direct links to a publisher's Web site, UCLA Library Catalog, Melvyl Catalog (catalog for UC campus libraries), and interlibrary loan (ILL) request. Alternatively, check the box to the left of the reference and click on the **full text icon** on the banner.

Or review the exercise on "Locating a Journal Article in the Library and on the Web"

Now find, Figadere; Franck, X. Synthesis from carboxylic acids and derivatives by substitution with a carbon nucleophile. *Science of Synthesis* (2005), Volume Date 2004, 26: 243-291. CODEN: SSCYJ9 CAN 143:247849 AN 2005:417348 CAPLUS

Q: What is the SEL/Chemistry Collection call number?_____

Search Note: Science of Synthesis is a multi-volume reference source, available electronically and in paper. Pop-ups must be disabled to view this resource online.

Library Instructional Resources <http://www.library.ucla.edu/sel/instruct>
Chem 30 CL: Organic Chemistry Laboratory II

CrossFire - first time logon instructions for Science Learning Center computers
Exercise: CrossFire (pdf)
Read more about CrossFire
Exercise: SciFinder Scholar (pdf)
Read more about SciFinder Scholar
Exercise: Locating a Journal Article (pdf)

Abbreviations for Journals
Assigned readings
CHEMnetBASE
Citing Sources
E-resources, including Citation Linker
Merck Index Online
Organic Syntheses
Registry Numbers (CAS)
Safety (MSDS) sources
Science of Synthesis

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