

HUMAN HEALTH

ENVIRONMENTAL HEALTH

# Signals Notebook

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## Quick Start Guide

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**Last Updated:** April 21, 2021

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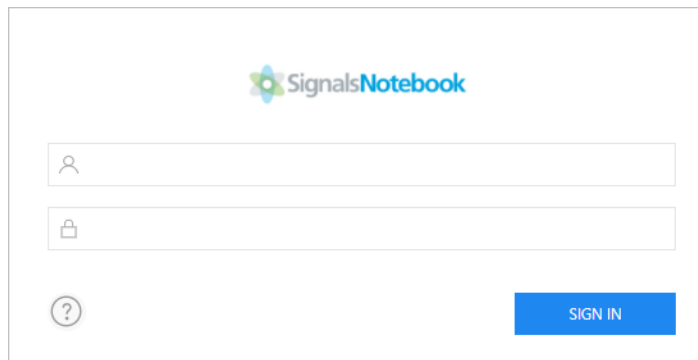
## Introduction

Signals Notebook is a 100% cloud-based collaborative platform, so your lab notebook is available anytime, anywhere and on multiple devices. All you need is a Web browser and an internet connection. Signals Notebook lets you connect and share data with colleagues and collaborators anywhere in the world. The current document provides an overview of the main features in Signals Notebook. Detailed information will be provided later in a complete User Guide and other HELP materials.

## Accessing Signals Notebook

To launch Signals Notebook:

1. Open a web browser and paste the Signals Notebook URL provided by PKI. The log in window displays.
2. Enter your credentials and click **Sign in** button.



The login screen features the Signals Notebook logo at the top. Below it are three input fields: a user icon for the username, a lock icon for the password, and a question mark icon for help. A blue 'SIGN IN' button is located at the bottom right of the form.

**Welcome to Signals Notebook!**

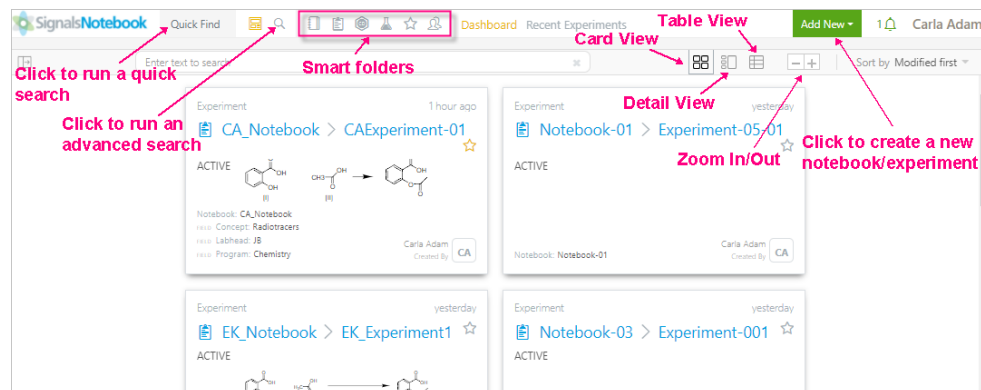
## Dashboard

After you log in to Signals Notebook, the Dashboard window appears displaying a number of smart folders that let you navigate with a single click to your notebooks, experiments, chemical reactions, chemicals, favorites'

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items and groups. In addition, it shows the recent experiments which you have edited in the last month.

**Note:** If you are a new user and logging in for the first time, the Recent Experiments list is empty.



The screenshot shows the Signals Notebook dashboard with several annotations. A search bar at the top left has a red arrow pointing to it with the text 'Click to run a quick search'. To its right, a 'Smart folders' section has a red arrow pointing to it with the text 'Click to run an advanced search'. The main content area displays a grid of experiment cards. A red arrow points to the 'Table View' tab with the text 'Table View'. Another red arrow points to the 'Card View' tab with the text 'Card View'. A third red arrow points to the 'Detail View' tab with the text 'Detail View'. A fourth red arrow points to the 'Zoom In/Out' buttons with the text 'Zoom In/Out'. A fifth red arrow points to the 'Add New' button with the text 'Click to create a new notebook/experiment'. The user's name 'Carla Adam' is visible in the top right corner.

A filter panel is available in the left side and allows you to filter out your experiments based on filter fields that you specify.

You can choose to display the experiments in either the card, detail or table layout by clicking on the **Card/Detail/Table** tab on the top of the recent experiments list.

You can zoom in/ zoom out the experiments page by clicking on the corresponding buttons right after the layout buttons.

You can sort your experiments by name, by created date or by modified date by selecting **Sort by Name/ Modified/Created** respectively.

## Filtering the Recent Experiments

You can filter the recent experiments by selecting directly the value or by manually adding filter fields as described below.

- A. Click on the value that you want to add to the filter panel and apply the filter. If available, multiple conditions possibilities get displayed. Select the condition to get it added to the filter panel.

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1- Click on the tag

2- Select the condition that you want. It gets added to the filter panel

The matching hit list displays.

You can use one or more criteria for filtering.

- B. Use the Add filter button to create and run simple or combined queries using the available fields.

1- Click on the Add Filter field to get the list of the available fields displayed

2- Create your query by selecting the field (s) that you want, adding value(s) and selecting condition(s)

You can type in the text box to filter your experiments. All experiments that contain the text you typed display in the list.

## Creating a Notebook

You can create a notebook from the Signals Notebook page header by selecting **Notebook** option from the **Add New** button menu in the upper-right corner. Enter the Notebook name and a description if desired and click **Create Notebook** button.

### New Notebook

**Name\***

**Description**

Cancel + Create Notebook

## Creating an Experiment

You can create a new experiment from the Signals Notebook page header by selecting **Experiment** option from the **Add New** button menu in the upper-right corner. Enter the experiment name and a description if desired. Select the notebook where you want to add the new experiment. If you do not select a notebook the experiment will be created independently, not as a part of any notebook. Select a template. If a template is not selected, a new blank experiment will be created.

### New Experiment

**Template**

Select a Template...

No template is selected. New blank experiment will be created

**Name\***

Name...

**Description**

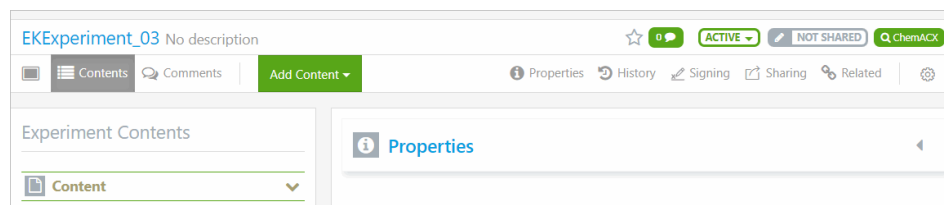
Description...

**Notebook**

Select a Notebook...

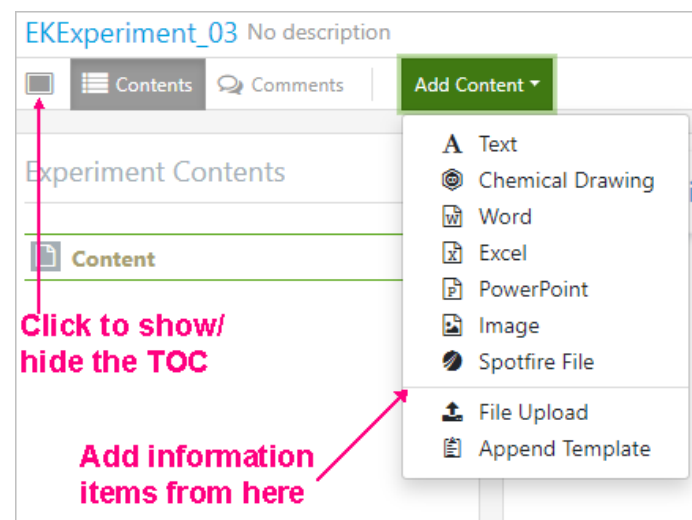
Cancel
+ Create Experiment

In the example below, an independent experiment is being created. Once the experiment is created the following page displays:



## Adding Information Items

After you add a new experiment the following window displays:



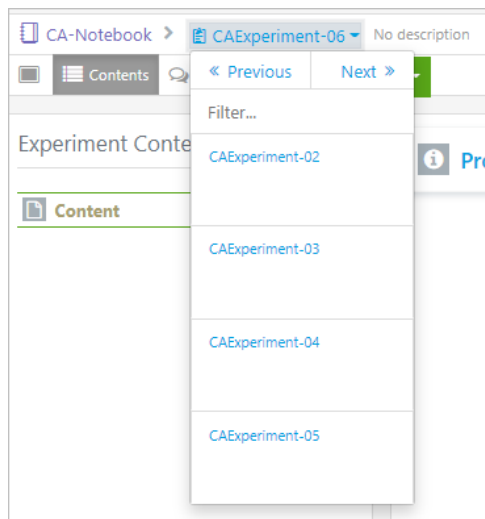
Select the information item that you want to add from the **Add Content** dropdown list.

All the added items appear under Content. You can reposition the information items in the table of content or move these from one page to another one using the drag and drop method.

**Note:** Information items can be added to experiments and to notebooks as well.

If an experiment exists under a Notebook, and the notebook contains many experiments, you can navigate through the notebook's experiments via the dropdown list that appears when you click on the active experiment name.

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Use the **Previous** and **Next** buttons to navigate to the previous/ next experiment respectively.

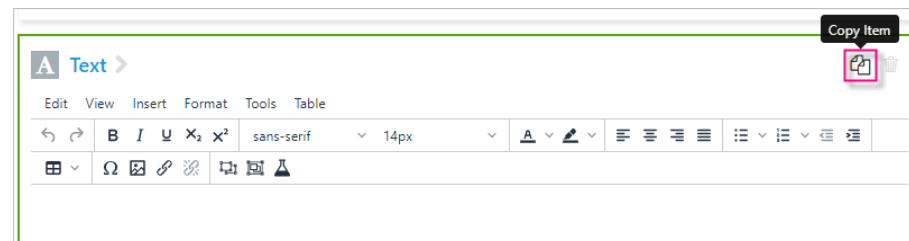
## Copying an Information Item

The **Copy** feature enables you to copy a particular information item:

- from one experiment to another
- within the experiment
- from a notebook to an experiment
- notebook to experiment
- experiment template to another
- within the experiment template

You can copy only a single information item at a time. You can copy a chemical drawing information item, Office information item, dragged and dropped files, uploaded files, image, or text information item.

For example, to copy a Text information item, select an experiment containing a text information item and then click the **Copy Item** icon.  
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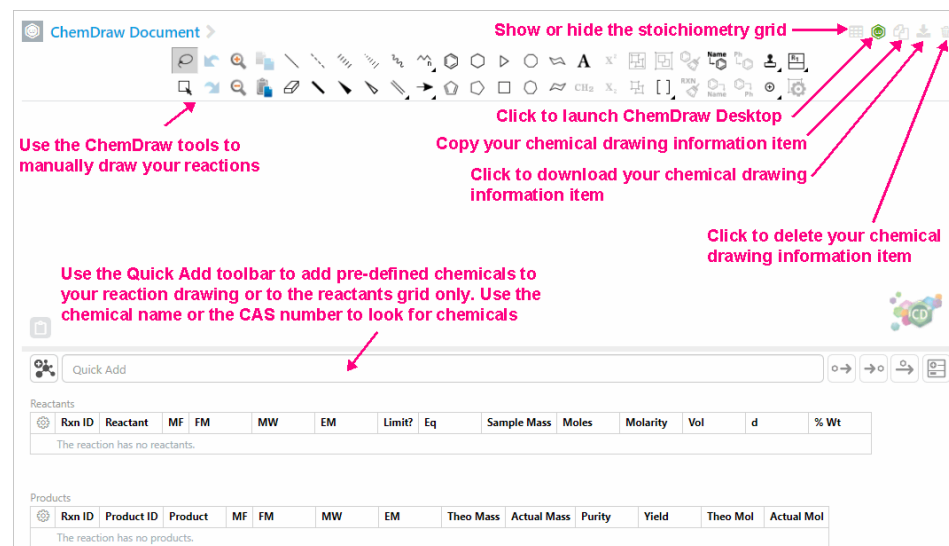


To paste the copied Text information item into any entity, browse to that entity and select the paste option from the **Add Content** menu.

## Working with Information Items

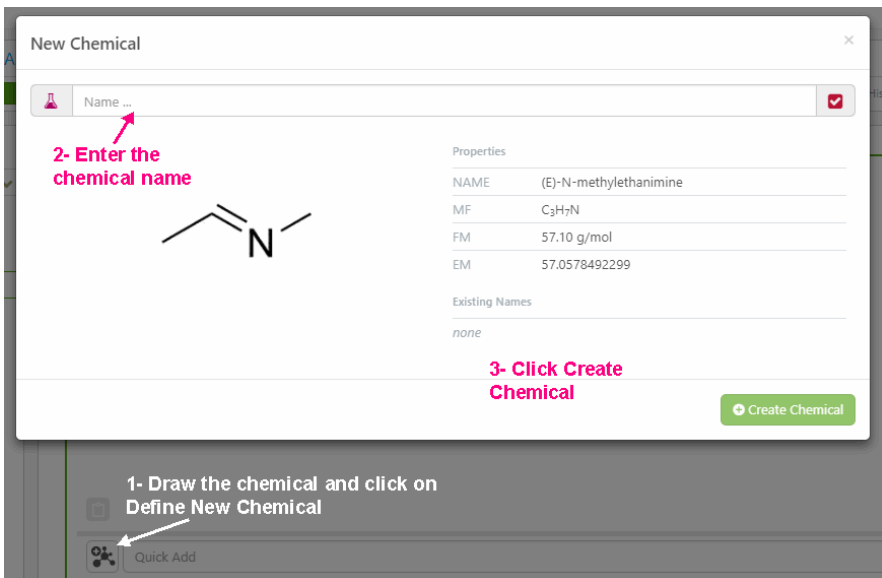
### Chemical Drawing Document

After you add a Chemical Drawing item, the following window appears:



You can define a new chemical from the Chemical Drawing document:

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New Chemical

Name ...

2- Enter the chemical name

Properties

NAME	(E)-N-methylethanamine
MF	C <sub>3</sub> H <sub>7</sub> N
FM	57.10 g/mol
EM	57.0578492299

Existing Names

none

3- Click Create Chemical

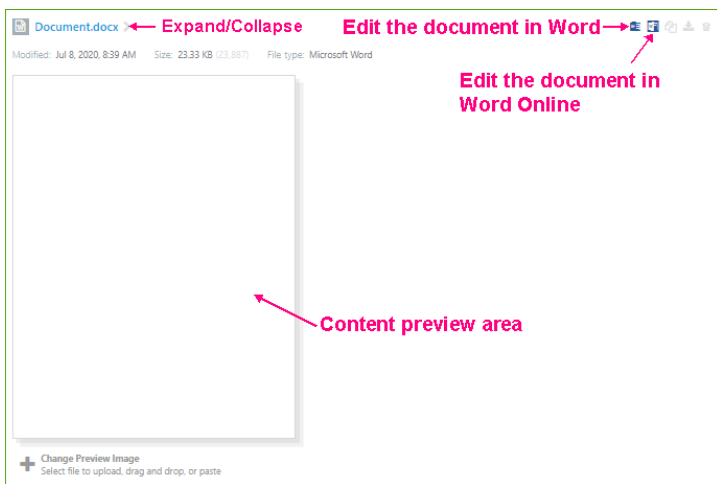
Create Chemical

1- Draw the chemical and click on Define New Chemical

Quick Add

## Word Document

After you add a Word document, the following window appears:



Document.docx

Expand/Collapse

Edit the document in Word

Edit the document in Word Online

Content preview area

Change Preview Image  
Select file to upload, drag and drop, or paste

You can add a blank MSWord document or you can upload an existing file using the File Upload option.

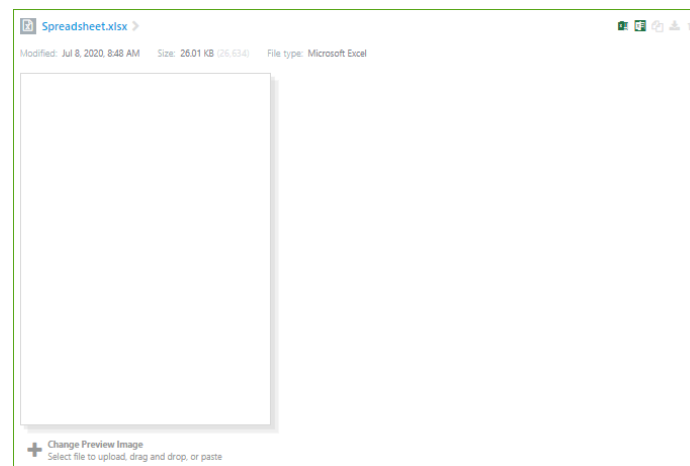
- **Edit in Word:** launches the document using your local Word application. Make necessary edits and save. The content is updated in Word item in Signals Notebook.
- **Edit in Word Online:** launches the document using Office 365. Make necessary edits and close the document. The content is updated in Word item in Signals Notebook.

### Notes:

- To use the Online Word option, you need to have Office 365 subscription.
- Any Office 2007 document or higher can be opened in Office 365 online. Office documents below 2007 version will only be edited with the local Word application.

MS PowerPoint and MS Excel documents are edited the same as the MS Word document.

MS Excel item:



Spreadsheet.xlsx

Modified: Jul 8, 2020, 8:48 AM

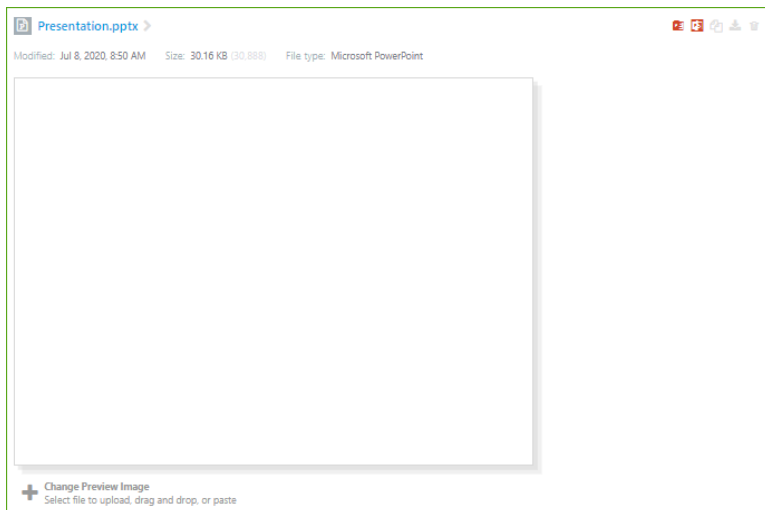
Size: 2601 KB (25.614)



File type: Microsoft Excel

Change Preview Image  
Select file to upload, drag and drop, or paste

MS PowerPoint item:

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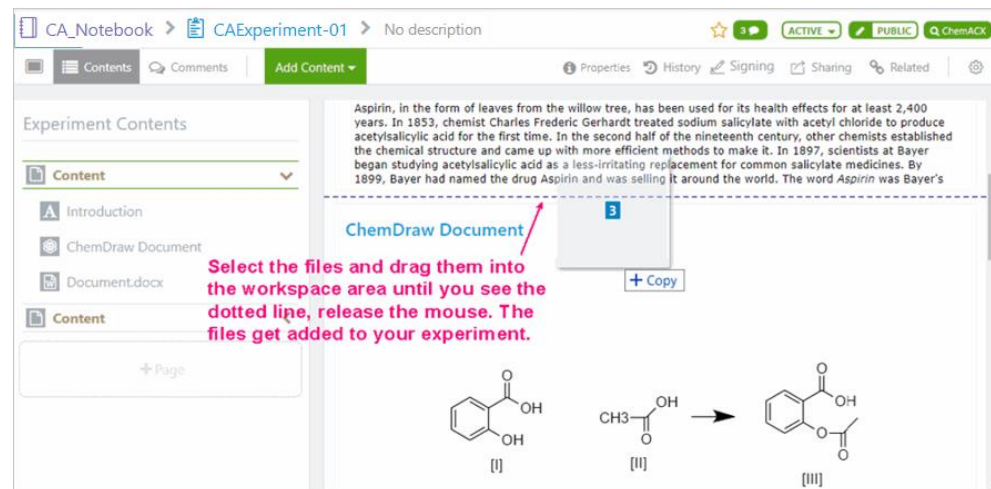


You can download MS Office documents using the Download button  and saving those locally. You can send the MS Office items to Trash by clicking on Trash button .

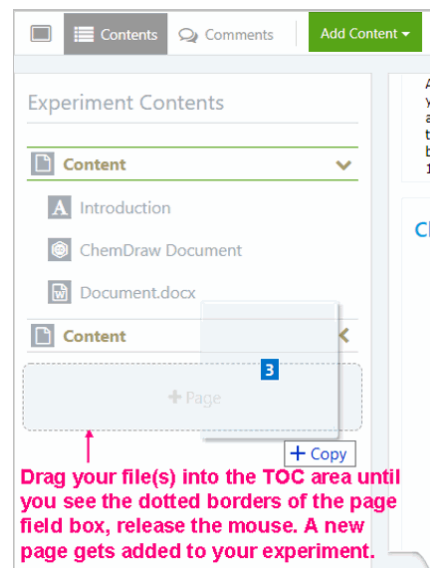
### Drag and Drop Files

You can drag and drop single or multiple files from your local documents into Signals Notebook as shown below:

**Note:** You can only drag and drop files to experiments and not to notebooks.



You can drag and drop files into the content side to add a new page to your experiment as shown below:



You can drag and drop complete files or file snippets. For example, if you need to drag a paragraph from a local text file, you simply select the

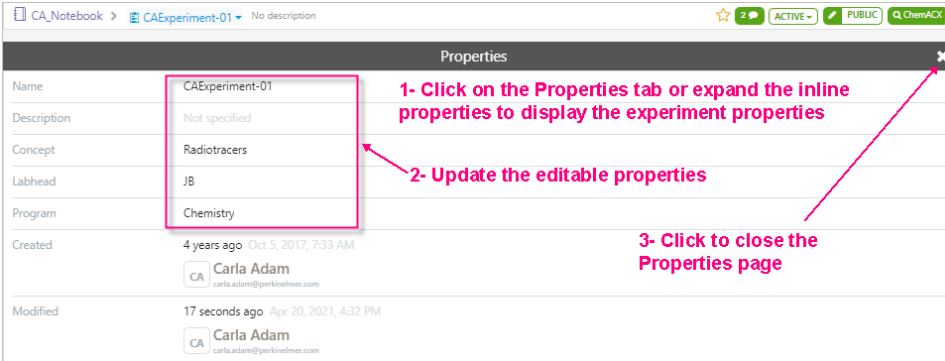
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paragraph and drag it into Signals Notebook interface. A new text item is created in Signals Notebook and the content is pasted into it. You can drop the paragraph content into an existing text item as well.

## File Upload

Click on **File Upload** option to add any file which you want to appear on your experiment. After you click on File Upload a dialog appears prompting you to browse to the desired file. Select the file and click Open. The file is uploaded.

## Experiment Properties



The screenshot shows the 'Properties' panel for an experiment. The panel is titled 'Properties' and contains the following information:

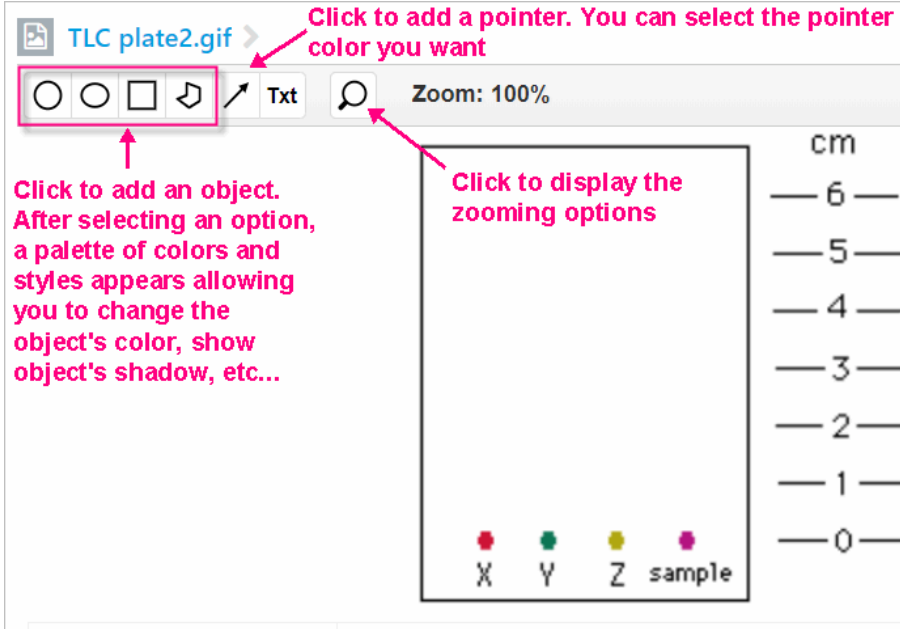
Property	Value
Name	CAExperiment-01
Description	Not specified
Concept	Radiotracers
Labhead	JB
Program	Chemistry
Created	4 years ago Oct 5, 2017, 7:33 AM Carla Adam carla.adam@perkinelmer.com
Modified	17 seconds ago Apr 20, 2021, 4:32 PM Carla Adam carla.adam@perkinelmer.com

Annotations on the screenshot:

- 1- Click on the Properties tab or expand the inline properties to display the experiment properties (points to the 'Properties' tab)
- 2- Update the editable properties (points to the 'Name' field)
- 3- Click to close the Properties page (points to the close button 'x')

## Image Annotation

You can add a tag to an image as an annotation. Multiple tools are available to annotate your image with objects, shapes, arrows, text, etc.



The screenshot shows the image annotation interface for a file named 'TLC plate2.gif'. The interface includes a toolbar with the following tools: a circle, a square, a rectangle, a circle with a dot, an arrow, and a text box. The zoom level is set to 100%.

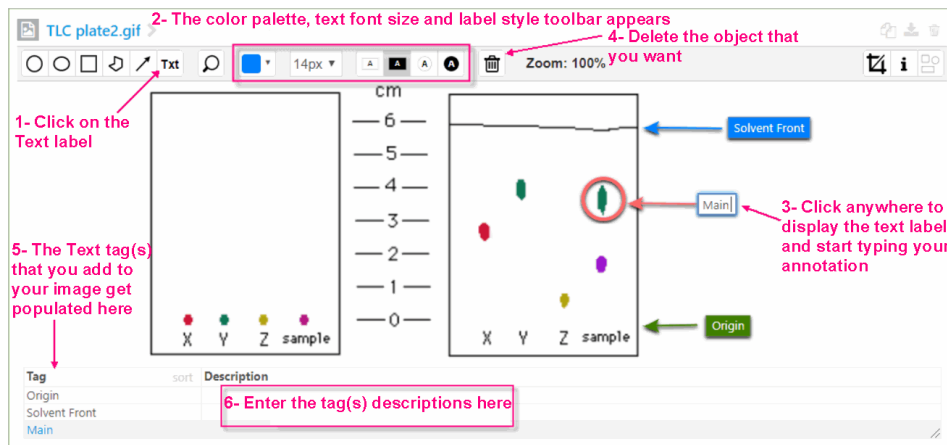
Annotations on the screenshot:

- Click to add an object. After selecting an option, a palette of colors and styles appears allowing you to change the object's color, show object's shadow, etc... (points to the shape tools)
- Click to add a pointer. You can select the pointer color you want (points to the arrow tool)
- Click to display the zooming options (points to the zoom icon)

The image shows a TLC plate with a scale on the right side ranging from 0 to 6 cm. The plate has four lanes labeled X, Y, Z, and sample. The X, Y, and Z lanes contain colored spots (red, green, and yellow respectively), while the sample lane contains a purple spot.



## Adding Text to your image



1- Click on the Text label

2- The color palette, text font size and label style toolbar appears

3- Click anywhere to display the text label and start typing your annotation

4- Delete the object that you want

5- The Text tag(s) that you add to your image get populated here

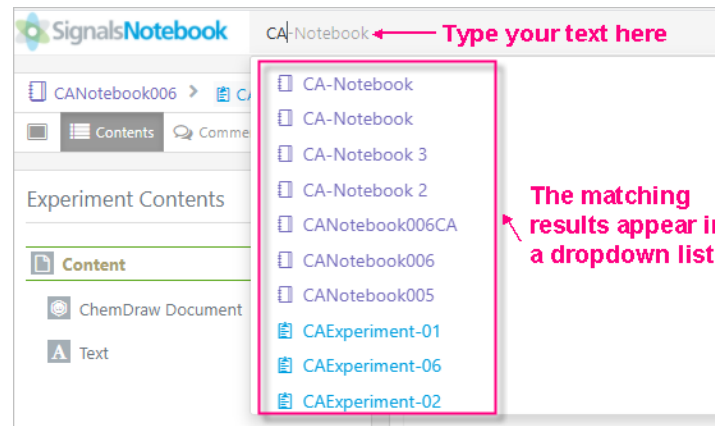
6- Enter the tag(s) descriptions here

## Searching in Signals Notebook

Search feature in Signals Notebook lets you search your items and anything that is shared with you.

Two types of searches are available:

- **Quick Find:** contains a text field where you enter the text that you are looking for.
- **Advanced Search:** provides you multiple query fields that you can combine to create and run a query. Advanced search allows you to perform a text search as well.



CA-Notebook ← Type your text here

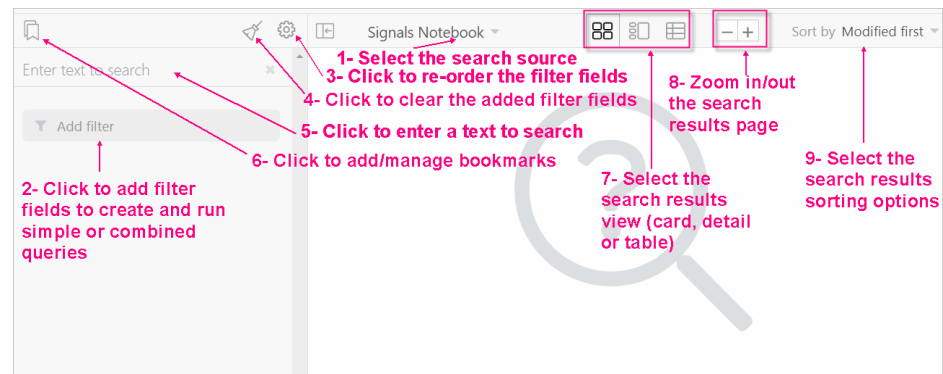
The matching results appear in a dropdown list

You could use asterisk wildcard (\*) if you are not sure about the word/item that you are looking for.

Click on any result to navigate to its corresponding page.

## Advanced Search

Using the Advanced Search page you can run chemical, text or combined chemical and text searches. You can access the Advanced Search page by clicking on the Search smart folder icon.



1- Select the search source

2- Click to add filter fields to create and run simple or combined queries

3- Click to re-order the filter fields

4- Click to clear the added filter fields

5- Click to enter a text to search

6- Click to add/manage bookmarks

7- Select the search results view (card, detail or table)

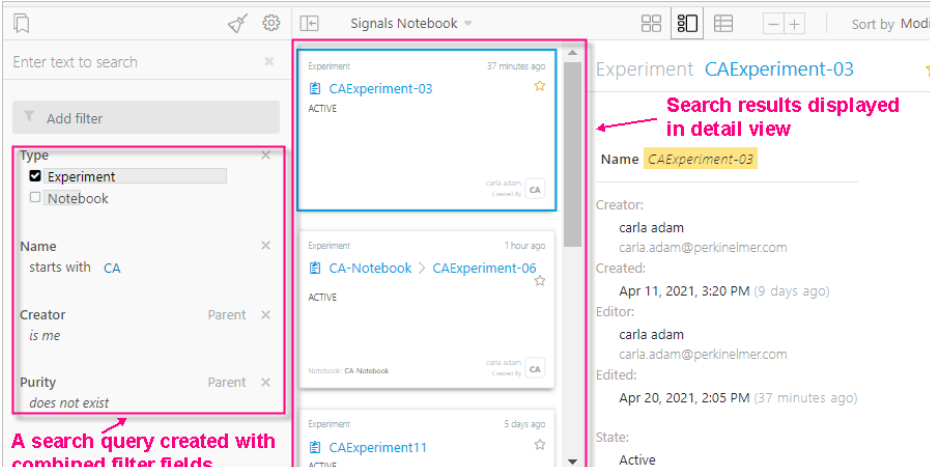
8- Zoom in/out the search results page

9- Select the search results sorting options

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Filter Field	Description
Chemical Search	Chemical search field allows you draw and search for chemical structures.
Key Filter	Key filter fields are used to add the resources state and type to the query.
Text Filter	Text filter fields allow you to add text field type such as product name, reactant name, MF, resource name, project name, supplier name, etc....
Numeric Filter	Numeric filter fields allow you to search for all numeric properties that are available in the stoichiometry, solvents and reaction conditions tables.
Date Filter	You can run your search to get results for resources that are created on a specific date.
User Filter	You can run your search to get results for resources that are created by a specific user.

Below is an example of an advanced search results hit list:



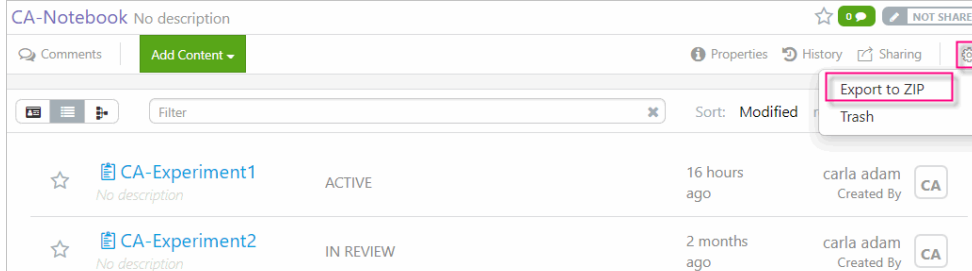
The screenshot shows the search interface with a list of results on the left and a detailed view of 'CAExperiment-03' on the right. A search query is highlighted in the filter section: 'Type: Experiment, Name: starts with CA, Creator: is me, Purity: does not exist'. A red arrow points to the search results in the detail view.

## Exporting Notebooks

You can export your notebook into a zipped folder and save it locally. The exported zip folder contains a sub-folder '**Experiments**' and notebook PDF. Experiments: includes all the experiments created in the notebook level in PDF format.

The notebook PDF contains all the elements, experiments and attachments in the notebook level.

To export a notebook to zip, select the notebook and then select "**Export to ZIP**" option from the Actions menu in the notebook toolbar.



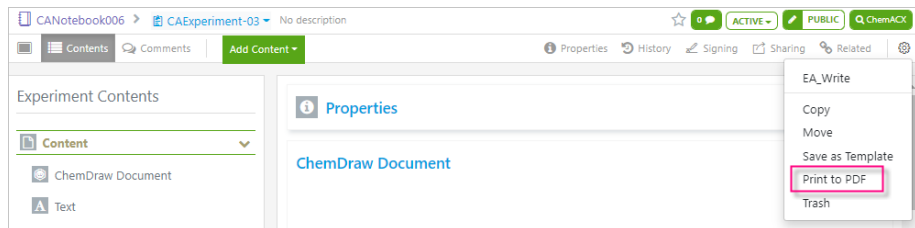
The screenshot shows the notebook toolbar with the 'Export to ZIP' option highlighted in a red box. The toolbar also includes options for Comments, Add Content, Properties, History, Sharing, and Trash.

## Printing Experiments to PDF

You can print the content of your experiments into a PDF format and save it locally. This enables you to have access to your experiments outside of the Signals Notebook application.

To print an experiment to PDF, select the desired experiment and then select **Print to PDF** option from the Actions menu.

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The screenshot displays the Signals Notebook interface. At the top, the breadcrumb path is "CANotebook006 > CAExperiment-03 No description". The status bar shows "ACTIVE", "PUBLIC", and "ChemACK". The main navigation bar includes "Contents", "Comments", and "Add Content". The left sidebar, titled "Experiment Contents", shows a tree view with "Content" expanded, containing "ChemDraw Document" and "Text". The main content area is titled "Properties" and shows a "ChemDraw Document" entry. A context menu is open over the "ChemDraw Document" entry, listing options: "EA\_Write", "Copy", "Move", "Save as Template", "Print to PDF" (highlighted with a red box), and "Trash".