

# How To...

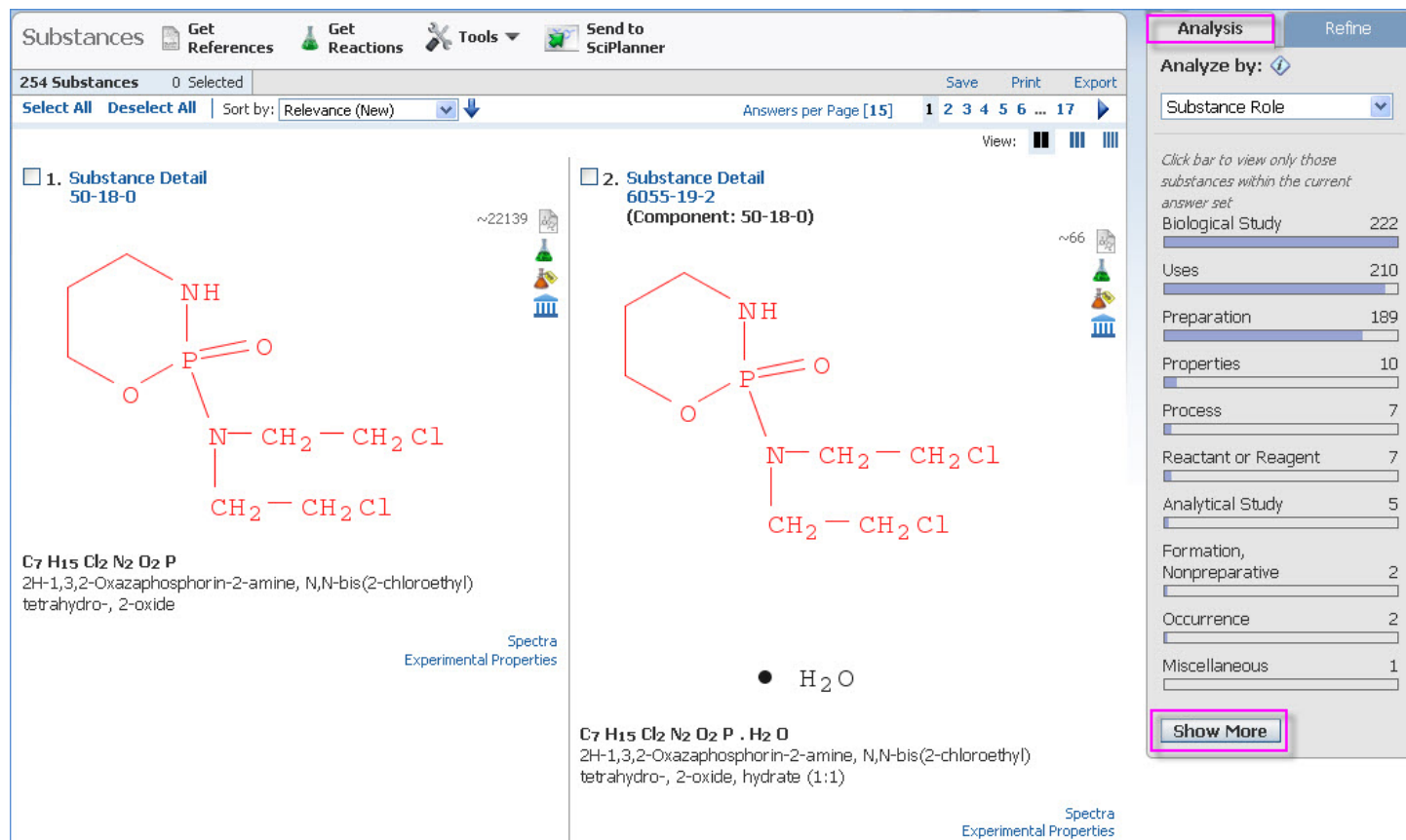
## Analyze Substance Answers

Use the SciFinder® Analyze tool to explore, evaluate, and review a substance answer set. Analyzing helps you get different views of your answer set based on criteria of bioactivity indicators, commercial availability, elements present, reaction availability, substance role, or target indicators.

### Analysis display

When the substances in an answer set are displayed, they are automatically analyzed by Substance Role. (You can select other analysis categories as shown below.) The first ten analysis bars are automatically displayed to the right of the substances. Each bar represents a subset of the answer set. The number at the right indicates the number of answers in the subset. To display the substances in one subset, click the desired analysis bar. The bar is highlighted in yellow, as are the portions of other bars that represent the substances within that subset. Although the answer set is unchanged.

1. Click **Show More** to see additional analysis bars (In this example – Substance Role).



The screenshot displays the SciFinder interface with two substance detail panels and an analysis sidebar. The top navigation bar includes 'Substances', 'Get References', 'Get Reactions', 'Tools', and 'Send to SciPlanner'. Below this, it shows '254 Substances', '0 Selected', and sorting options. The main content area is divided into two panels:

- Panel 1:** Substance Detail 50-18-0. Chemical structure: CCN(CCCl)C(=O)N1CCOCC1. Molecular formula:  $C_7 H_{15} Cl_2 N_2 O_2 P$ . Name: 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl) tetrahydro-, 2-oxide.
- Panel 2:** Substance Detail 6055-19-2 (Component: 50-18-0). Chemical structure: CCN(CCCl)C(=O)N1CCOCC1.O. Molecular formula:  $C_7 H_{15} Cl_2 N_2 O_2 P \cdot H_2 O$ . Name: 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl) tetrahydro-, 2-oxide, hydrate (1:1).

The right sidebar, titled 'Analysis', shows 'Analyze by:' set to 'Substance Role'. A list of analysis categories is shown with corresponding counts and progress bars:

Analysis Category	Count
Biological Study	222
Uses	210
Preparation	189
Properties	10
Process	7
Reactant or Reagent	7
Analytical Study	5
Formation, Nonpreparative	2
Occurrence	2
Miscellaneous	1

A 'Show More' button is highlighted in a pink box at the bottom of the sidebar.

2. To analyze by a different criteria, select another option from the drop-down menu. For example, Reaction Availability.

The screenshot shows the 'Analysis' panel with the 'Analyze by:' dropdown menu open. The options are: Substance Role, Bioactivity Indicators (New), Commercial Availability, Elements, Reaction Availability (highlighted), Substance Role, and Target Indicators (New). Below the menu is a list of categories with their respective counts and progress bars: Uses (209), Preparation (189), Properties (10), Process (7), Reactant or Reagent (7), Analytical Study (5), Formation, Nonpreparative (2), Occurrence (2), and Miscellaneous (1). A 'Show More' button is highlighted with a pink box at the bottom.

SELECT THIS OPTION...	TO IDENTIFY...
Bioactivity Indicators	Relationship between substance of interest and a type of biological activity
Commercial Availability	Whether the substances can be obtained from commercial sources
Elements	The elements present in the substances in the answer set
Reaction Availability	Whether the substances are referenced in reactions
Substance Role	The role, use, or type of study with which the substances are associated
Target Indicators	Relationship between substances of interest and a protein, enzyme, or other target

3. To display the substances associated with multiple subsets at once, click **Show More**. After selecting those of interest, click **Apply**.

The screenshot shows the 'Analysis - Substance Role' panel. It displays a list of categories with checkboxes and their respective counts. The categories are: Biological Study (221), Uses (209), Preparation (189), Properties (10), Process (7), Reactant or Reagent (7), Analytical Study (5), Formation, Nonpreparative (2), Occurrence (2), and Miscellaneous (1). The 'Biological Study' and 'Analytical Study' checkboxes are checked. An 'Apply' button is highlighted with a pink box at the bottom.

## Tip:

- Use the **Sort by** drop-down list to select the order in which to display the analysis bars
  - **Frequency** (default) displays only the top 500 bars
  - **Natural Order** displays all bars in alphanumeric order

The substances associated with the selected analysis bar(s) are displayed, as indicated by the message in yellow. While the display is changed, the original answer set remains intact.

4. To modify your answer set so it contains only the substances in the analyzed set, click **Keep Analysis**. To return to the complete answer set, click **Clear Analysis**.

Substances 254 Substances 0 Selected

223 substances with the Substance Roles **Analytical Study, Biological Study** are displayed

Keep Analysis Clear Analysis

Select All Deselect All Sort by: Relevance (New) Answers per Page [15] 1 2 3 4 5 6 ... 15

1. Substance Detail  
50-18-0  
~22139

CCN(CCCOP(=O)(O)NCC)CC

C<sub>7</sub> H<sub>15</sub> Cl<sub>2</sub> N<sub>2</sub> O<sub>2</sub> P  
2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl) tetrahydro-, 2-oxide

Spectra Experimental Properties

2. Substance Detail  
6055-19-2  
(Component: 50-18-0)  
~66

CCN(CCCOP(=O)(O)NCC)CC.O

C<sub>7</sub> H<sub>15</sub> Cl<sub>2</sub> N<sub>2</sub> O<sub>2</sub> P · H<sub>2</sub> O  
2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl) tetrahydro-, 2-oxide, hydrate (1:1)

Spectra Experimental Properties

Analysis Refine

Analyze by: Substance Role

Click bar to view only those substances within the current answer set

Biological Study	222
Uses	210
Preparation	189
Properties	10
Process	7
Reactant or Reagent	7
Analytical Study	5
Formation, Nonpreparative	2
Occurrence	2
Miscellaneous	1

Show More

## Additional resources

To learn more about working with substance answer sets, refer to

- SciFinder online help files
- How To Guides for:
  - Refine Substance Answers
  - Find Commercial Sources
  - Combine Answer Sets
  - Keep Me Posted Alerts
  - Print, Save, and Export
- Instructor-led and self-directed learning options in the [Learning Solutions](#) resource center