## 1. Search

### SUBSTANCES

<table>
<thead>
<tr>
<th>FEATURE</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Quick search as text</strong>&lt;br&gt;(See page 3)</td>
<td>Enter a substance name, molecular formula or CAS number in the Search Reaxys field and click Search. Examples:&lt;br&gt;- Atenolol &lt;br&gt;- Pt(PPh3)3 &lt;br&gt;- 102625-70-7</td>
</tr>
</tbody>
</table>
| **Quick search with Structure or Reaction Drawing**<br>(See page 4) | 1. Click the Create Structure or Reaction Drawing box.  
2. Create the substance structure drawing. For more information on using the Marvin JS structure editor see:<br>   a. The Structure drawing workflow.  
   b. View our Tips for using ChemAxon Marvin JS.  
   c. Visit the ChemAxon Marvin JS website which includes a MarvinJS User’s Guide.  
3. Click Transfer to query, click Search.                                             |
| **Query builder**<br>(See page 5 & 6)       | 1. Click Query builder (See page 6).  
2. Select one of the Quick Querylets (Structure, Molecular Formula, CAS RN or Doc Index) under the search button. OR  
2. Drag & Drop from one of these options  
   a. Fields: search for properties using the Search properties field.  
   b. Forms: use a Predefined Form such as Physical Data, Reactions, etc.  
   c. History: use a Recent or Saved search.  
3. If you have multiple search fields, use the appropriate Boolean operator (see page 7).  
4. Click Search at the top of the screen and select the desired target content: e.g. Substances.  
   **Note:** Click Show fields to enter specific search values.                                    |

### REACTIONS

<table>
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</thead>
</table>
| **Quick search as text**<br>(See page 3)     | Enter a term(s) in the Search Reaxys field and click Search. Examples:<br>- preparation of porphyrine  
- phosphorylation  
- Suzuki coupling  
- Adler phenol oxidation                                                                                     |
| **Quick search with Structure or Reaction Drawing**<br>(See page 4) | 1. Click the Create Structure or Reaction Drawing box.  
2. Create the reaction structure drawing. For more information on using the Marvin JS structure editor see:<br>   a. The Structure drawing workflow.  
   b. Create a Reaction Query in the Search for Reactions Workflow.  
   c. View our Tips for using ChemAxon Marvin JS.  
   d. Visit the ChemAxon Marvin JS website which includes a MarvinJS User’s Guide.  
3. Click Transfer to query, click Search.                                             |
| **Query builder**<br>(See page 5 & 6)       | 1. Click Query builder (See page 6).  
2. Select one of the Quick Querylets (Structure, Molecular Formula, CAS RN or Doc Index) under the search button. OR  
2. Drag & Drop from one of these options  
   a. Fields: search for properties using the Search properties field.  
   b. Forms: use a Predefined Form such as Physical Data, Reactions, etc.  
   c. History: use a Recent or Saved search.  
3. If you have multiple search fields, use the appropriate Boolean operator (see page 7).  
4. Click Search at the top of the screen and select the desired target content: e.g. Reactions.  
   **Note:** Click Show fields to enter specific search values.                                    |
## Search (continued)

### LITERATURE

<table>
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<tbody>
<tr>
<td><strong>Quick search</strong> (See page 3)</td>
<td>Enter a term(s) in the <strong>Search Reaxys</strong> field and click <strong>Search</strong>. Examples:</td>
</tr>
<tr>
<td>- publications about quasicrystals</td>
<td></td>
</tr>
<tr>
<td>- Tetrahedron, 2014, 70, 2343</td>
<td></td>
</tr>
<tr>
<td>- published by Schrock</td>
<td></td>
</tr>
<tr>
<td><strong>Quick search with Structure or Reaction Drawing</strong> (See page 4)</td>
<td><strong>Note:</strong> Any structure or reaction query (see page 1) will primarily find substances or reactions. Any data point in those results has a reference, which provides additional links to documents. In addition you may click the documents link at the top of the page to view documents for the result set.</td>
</tr>
</tbody>
</table>

### PROPERTIES

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<tr>
<td><strong>Quick search</strong> (See page 3)</td>
<td>Enter terms in the <strong>Search Reaxys</strong> field and click <strong>Search</strong>. Examples:</td>
</tr>
<tr>
<td>- boiling point of benzene</td>
<td></td>
</tr>
<tr>
<td>- density of quinolone</td>
<td></td>
</tr>
<tr>
<td><strong>Quick search with Structure or Reaction Drawing</strong> (See page 4)</td>
<td>1. Click the <strong>Create Structure or Reaction Drawing</strong> box. 2. Create the substance structure drawing. For more information on using the Marvin JS structure editor see:</td>
</tr>
<tr>
<td></td>
<td>3. Click <strong>Transfer to query</strong>.</td>
</tr>
<tr>
<td></td>
<td>4. Enter property (e.g. boiling point) in the <strong>Search Reaxys</strong> field.</td>
</tr>
<tr>
<td></td>
<td>5. Click <strong>Search</strong>.</td>
</tr>
<tr>
<td><strong>Query builder</strong> (See page 5 &amp; 6)</td>
<td>1. Click <strong>Query builder</strong> (See page 6).</td>
</tr>
<tr>
<td></td>
<td>2. Select one of the Quick Querylets (Structure, Molecular Formula, CAS RN or Doc Index) under the search button. <strong>OR</strong></td>
</tr>
<tr>
<td></td>
<td>2. Drag &amp; Drop from one of these options</td>
</tr>
<tr>
<td></td>
<td>a. <strong>Fields:</strong> search for properties using the <strong>Search properties</strong> field.</td>
</tr>
<tr>
<td></td>
<td>b. <strong>Forms:</strong> use a Predefined Form such as <strong>Physical Data, Reactions</strong>, etc.</td>
</tr>
<tr>
<td></td>
<td>c. <strong>History:</strong> use a <strong>Recent</strong> or <strong>Saved</strong> search.</td>
</tr>
<tr>
<td></td>
<td>3. If you have multiple search fields, use the appropriate Boolean operator (see page 7).</td>
</tr>
<tr>
<td></td>
<td>4. Click <strong>Search</strong> at the top of the screen and select the desired target content: e.g. <strong>Documents</strong>.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Click <strong>Show fields</strong> to enter specific search values.</td>
</tr>
</tbody>
</table>

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Quick search

The text search option allows you to enter natural language terms (terms may be left, right or middle truncated using an asterisk (wildcard searching)).

Structure Search allows you to search for substances and reactions by drawing.
Quick search with Structure or Reaction Drawing

1. Click the Create Structure or Reaction Drawing box.

2. Use ChemAxon’s Marvin JS tools to create a structure or reaction drawing.
Query builder Fields & Forms Panel

The initial view shows various search field categories. To find names of fields, enter terms here, e.g., boil to get boiling point.

Click Forms to display default fields for general types of properties.

Click History to display Recent and Saved searches that can be dragged and dropped onto the Query builder.

Click Reaxys or other Database to view available Property fields.
Query builder Steps

1. Click **Query builder**.
2. Start typing property name e.g. **boiling** in Search properties field.
3. Drag & drop property onto the **Query builder**.
4. Click **Show fields**.
5. Define specific **Search Criteria**.
6. Click **Search (Substances)**.
Query builder: Multiple Properties and Booleans

Click desired Boolean
- OR: contains data from at least one of the fields
- AND: contains data from both fields
- NOT: contains the first field’s data and excludes the second
- PROXIMITY: typically used with parameter fields, ensuring the content of both fields relate to each other (e.g. melting point and solvent)
2. Results

Quick search Results Preview

Reaxys analyzes the **Quick search** query input and returns result sets in a Results Preview (note: only **Quick search** queries will present a results preview, because of the nature of query interpretation).

The result sets depend on the term(s) entered. In this case, Reaxys identified the name of a substance and searched for the substance by structure in Substance Records and by name in Document Records.

In other cases, **Search Reaxys** may give options that display **Reaction Records** or **Document Records** with different combinations of search terms entered.
Quick search or Query builder Results – Substances

Use Filters and Analysis to narrow your results.

Keep track of the session through the 'breadcrumbs'.

Click appropriate Database: Reaxys, eMolecules, LabNetwork, and PubChem.

Sorting option is dependent on the selected Database.

Click links to see Preparation and Reaction information, and Documents (literature).

Click links to view specific information on the substance.

Click to expand filters.
Quick search or Query builder Results – Reactions

Use **Filters and Analysis** to narrow your results.

Keep track of the session through the ‘breadcrumbs’.

Click appropriate Database: **Reaxys**, eMolecules, LabNetwork, and PubChem.

Sorting option is dependent on the selected Database.

Click links to view Full Text, details and more.

Click to expand filters.
Quick search or Query builder Results – Documents

Use Filters and Analysis options to narrow your results.

Use Index Terms to narrow documents by topics.

Click links for author(s) to explore details about their publications and additional analysis options in Scopus.

Default display is by Relevance, but other options are available.

Click link to view citations in Scopus.

Click links to view Full Text, Front Page info (for patent records), Substances, Reactions, Abstract or Index Terms.
3. Analyze and Filter

Use the Filter & Analysis panel to narrow your results:

1. Click ☐ to expand the Catalyst Classes Filter
2. Click More to display additional filter options.
3. Applying this filter will reduce the original 302 Reactions to 81.
4. **Synthesis planner - Manually**

Build a synthesis pathway manually or let Reaxys do it automatically (see page 15). To begin, click **Synthesize** below a structure.

1. **Click Manually.**

2. In the **Add preparation** window, select reactions to add to your plan. Note: the product structure is not shown because it is the same as the starting structure.

3. **Click Add # to plan.**
Synthesis planner – Manually (continued)

1. From the **Synthesis planner**, click the **Synthesis plan** to view.

2. Click the **Synthesis step options** ( ) to access:
   - Show conditions
   - Hide preparations
   - Add preparations
   - Remove preparations

3. Click **Show conditions**.

Experimental details for the selected preparation step is displayed, scroll up or down to view details of other steps in the synthesis plan.
Synthesis planner - Autoplan

Let Reaxys build a synthesis pathway automatically. To begin, click **Synthesize** below a structure.

1. Click **Autoplan**.

2. Define parameters for automatically generating synthetic pathways.

3. Click **Create Plans**.
Synthesis planner – Autoplan (continued)

1. From the Synthesis planner, click the plan to view.

2. Click the Synthesis step options (     ) to access:
   - Show conditions
   - Hide preparations
   - Add preparations
   - Remove preparations

3. Click Show conditions.

Experimental details for the selected preparation step is displayed, scroll up or down to view details of other steps in the synthesis plan.
### 5. Saving and Exporting

<table>
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<tbody>
<tr>
<td><strong>Saving</strong></td>
<td></td>
</tr>
</tbody>
</table>
| From the Query builder | Define the query; click **Save** in the upper left.  
- The query is saved to a .json file. |
| From the Synthesis planner | Click **Save**  
- The query is saved to a .json file. |
| From the History Page + Recent Tab | The **History Page + Recent** tab contains a list of searches from your current Reaxys session.  
Hover over a **Recent Search**, click **Save**, Enter a name, click **Save**.  
- The Saved search can now be found under the **Saved** tab. |
| **Exporting** | |
| From the Results Page: | Select the document(s) you would like to export by ticking the boxes above the number of the search result.  
- Click **Options**, then **Export**.  
- Define **Format**, **Range**, **Export data** and **Additional options**.  
- Click **Export**.  
- To view the export progress, click **Exports** in the lower right corner of the screen.  
  - When the export is complete, click **Download**. |
| From the Synthesis planner: | Click **Export**.  
- Click **Export documents** or **Export reactions**.  
- Define **Format** and **Additional options**.  
- Click **Export**.  
- To view the export progress, click **Exports** in the lower right corner of the screen.  
  - When export is complete, click **Download**. |