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Welcome to CAS SciFinder®

This Quick Reference Guide will show you how to start using CAS SciFinder®, the industry’s most trusted and comprehensive chemistry relevance engine.

First, open the CAS SciFinder® Login page: https://scifinder-n.cas.org.
Log in using your CAS SciFinder® Username and Password.

Search

Search for the result type you need using a keyword, substance name, CAS Registry Number®, patent number, or structure.

Note: You may enter a document object identifier (DOI) in the All and References searches.

Using Advanced Search for References and Substances, you may search by specific information type (e.g., author name or substance property).

Patent Markush Search: To conduct a patent markush search, select Substances, draw/import the query using the Structure Editor, and then check the box for Search Patent Markush.
Substance Results

Filter by structure match.
Retrieve related data for all results.
Download results.
Save results/search, create alert.
Email results.
Change result display.
Sort results by relevance, CAS RN, Molecular Formula or Weight, and Number of References or Suppliers.
Click to display data visualization.
Click property name to view more information on Substance Detail.
Select filters to focus results.
Click to open Substance Detail.
Click to select result.
Click to view substance information.
Click to download the contents (name and number value) for all or applied filters as an .xlsx file.
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Reference Results

- Retrieve related data for all results.
- Download results.
- Save results/search, create alert.
- Email results.
- Click the X to remove a filter or Clear All Filters. Multiple filters in dropdown menu.
- Keep or remove selected results.
- Change result display.
- Sort results by relevance, times cited, accession number, or publication date.
- Retrieve related data for a specific result.
- Click to select result.
- Click to open Reference Detail.
- Click to download the contents (name and number value) for all or applied filters as an .xlsx file.
- Click to access full-text viewing options.
- Click to access patent information viewing options.

See CAS SciFinder® Help for more information. For assistance, contact the CAS Customer Center.
Reference Detail

Retrieve data related to reference.

Download detail.

Save detail.

View map of references this document cites and references that cite this document.

Click to access full-text viewing options.

Request a prior art analysis that contains both patent and non-patent literature.

Click a PatentPak option view the patent source document.

View IPC codes for basic patent and patent family members.

View concepts that characterize the reference’s general subject matter.

View the reference’s indexed substances.

View the reference’s formulation data.

View the reference’s citations.

View interactive version of patent that highlights specific locations of indexed substances.
Reaction Results

- Retrieve related data for all results.
- Download results.
- Save results/search, create alert.
- Email results.
- Click the X to remove a filter or Clear All Filters. Multiple filters in dropdown menu.
- Keep or remove selected results.
- Change result display.
- View substance vendors.
- Click for options to view details, generate retrosynthesis plan, and edit/download structure file.
- Click to open reaction reference’s detail page.
- View reaction’s detail page.
- View experimental procedure for reaction.
- Click to access full-text viewing options.
- Click to access patent information viewing options.
- Select filters to focus results.

See CAS SciFinder® Help for more information. For assistance, contact the CAS Customer Center.
Reaction Detail

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**Reaction Detail**

- **Suppliers** (19, 78, 40, 63)
- **Saved**
- **Download**
- **Email**
- **View substance vendors**
- **Click to open reaction reference’s detail page**

**Step 1**

**Stage**

- Sodium periodate
- Benzytriethylammonium chloride
- Dichloromethane
- Water
- 10°C, 1 h

**Step 2**

**Stage**

- Sodium cyanoborohydride
- Dichloromethane
- 0°C, 0°C → 30°C, 0.5 - 1 h

**CAS Reaction Number:** 31-032-CAS-650575

**Experimental Protocols**

- Synthetic Methods
- Experimental Procedure

**Products:**
- 2,3,4,5-Tetrahydro-1,4-methanophenanthrene-3,4-diol

**Reactants:**
- 1,2,3,4-Tetrahydronaphthalene
- Benzyamine

**Reagents:**
- Sodium periodate
- Sodium cyanoborohydride
- Sodium carbonate

**Catalysts:**
- Benzytriethylammonium chloride

**Solvants:**
- Dichloromethane
- Water

**Procedure:**

1. Stir a 1,2,3,4-tetrahydro-1,4-methanophenanthrene-3,4-diol (100 g) in a mixture of water (2600 ml) and methylene chloride (1040 ml) under nitrogen at 10°C.
2. Add sodium periodate (127.6 g) and triethylenylammonium chloride (10 g) and stir the resulting mixture for 1 h.

**See CAS SciFinder® Help for more information. For assistance, contact the CAS Customer Center.**

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Supplier Results

Select filters to focus results.

Click the X to remove a filter or Clear All Filters. Multiple filters in dropdown menu.

Sort results by relevance, supplier name, shipping speed, or purity.

Click to open Substance Detail.

View details, generate retrosynthesis plan, and edit/download structure file.

Order from Supplier.

Open product ordering page on supplier’s website.

Open product information page on supplier’s website.

Click thumbs up/down to set supplier preference.

Click to download the contents (name and number value) for all or applied filters as an.xlsx file.

Supplier Detail

Click thumbs up to set supplier as Preferred or thumbs down for Non-Preferred.

Download detail.

Click to open Substance Detail.

Click to view details, generate retrosynthesis plan, and edit/download structure file.

Order From Supplier.

Open product ordering page on supplier’s website.

See CAS SciFinder® Help for more information. For assistance, contact the CAS Customer Center.
Biosequence Results

Retrieve related data for all results.

Click to select another sequence.

Sort results by Alignment Identity, E-Value, Query Coverage, or Subject Coverage.

Change result display.

Click to display data visualization.

Create Bioscape Analysis

Select filters to focus results.

Click to view CAS RN, NCBI Identifier, sequence length, NCBI Organism, and tabular sequence.

Click to view references indexing the sequence.

Click to patent/journal results containing a matching sequence.
Bioscape

Bioscape visualizes the similarity and patent landscape for a set of sequence results. The location of the sequence bar in the visualization corresponds to the similarity of the sequence to the query, and the height of the sequence bar corresponds to the number of patents in which the sequence has been published.

See CAS SciFinder® Help for more information. For assistance, contact the CAS Customer Center.
Chemscape visualizes the similarity and patent landscape for a set of substance results. The location of the substance bar in the visualization corresponds to the similarity of the substance to the query and the height of the substance in the visualization corresponds to the number of patents in which the substance has been published.
Saved Searches and Results

- Click to select item.
- Email selected item.
- Click to open Reference Detail.
- View references citing the saved item.
- Filter saved items.
- Edit name.
- Run a saved query.
- Create/add tags.
- Display saved result set.

Search History

- Filter history by selected search types.
- Delete searches.
- Rerun search to retrieve latest results.
- Edit search and then rerun.
- Open retrosynthesis plan or edit options and rerun.

Set/edit an alert on saved query or view and manage alert results.

Filter by
- Result Type
  - All
  - Reactions
  - References
  - Substances
- Alerts
  - Unreviewed
  - Alerts Set
  - No Alerts
- Tags
  - Citing Alert
  - For Review
  - NSAID

Combine Saved Results
- Combine

Combine previously saved queries or selected results.

Run a saved query.

Display saved result set.

Your Search History
- 53 Searches
- 1 Selected

Create/add tags.

Delete searches.

Filter by
- Date
  - Start Date
  - End Date

Display search history for a specified date range.

Search History

- 53 Searches
- 1 Selected

Filter by
- Result Type
  - All
  - Biosequences
  - Patent Markush
  - Reactions
  - References
  - Retrosynthesis
  - Substances
  - Suppliers

Filter history by selected search types.

Delete searches.

Rerun search to retrieve latest results.

Edit search and then rerun.

Open retrosynthesis plan or edit options and rerun.

See CAS SciFinder Help for more information. For assistance, contact the CAS Customer Center.
CAS SciFinder® Support

To access CAS SciFinder® in-application support, click the Help link at the bottom of any page or select Help from the Account menu.

For additional assistance using CAS SciFinder®, please contact the CAS Customer Center:

- **Hours:** 8:00 a.m. to 6:00 p.m. EST Monday – Friday.
- **Phone:**
  - 1-800-753-4227 (North America)
  - +1-614-447-3700 (outside North America)
  - **Option 2:** General information or account-related questions
  - **Option 3:** Assistance with search strategies, database content, or using a product
  - **Option 4:** Technical assistance with software set up, installation, and configuration
- **Email:** help@cas.org
- **Web:** https://www.cas.org/contact

If desired, ask for a CAS SciFinder® Familiarization Training Session visit or online session.