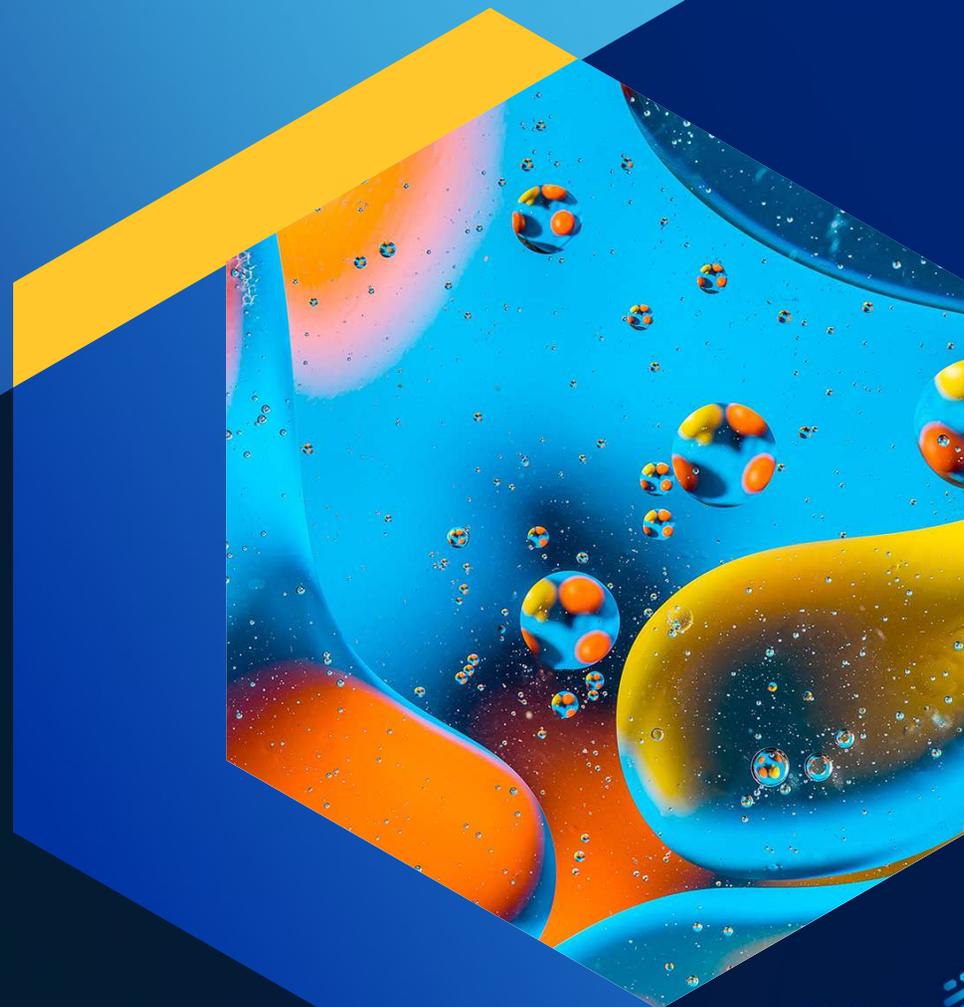


A LIBRARIAN'S GUIDE TO CAS SCIFINDER



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Student / researcher Questions

What conditions should I use for my experiment?

Is this research/molecule in a free patent space?

How do I make my new molecule/formulation?

Who else is researching/publishing in my field?

What is a recent real-world application of a theory I have learnt?

What is the optical rotation of d-limonene?

What should I do when I finish my studies?

These can all be answered with CAS SciFinder Discovery Platform™

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What is CAS SciFinder Discovery Platform™?

This combination of AI-enabled solutions promotes scientific discovery through access to multiple databases and tools, allowing faculty, students, and researchers to:

- Explore scientific literature from the CAS Content Collection™ & MEDLINE simultaneously using natural language queries.
- Locate substance details for organics, alloys, coordination compounds, minerals, mixtures, polymers, and salts.
- Search the world's largest database of chemical reactions to identify reaction protocols and uncover critical information.
- Design synthetic routes, including predicted steps, in real time using the interactive retrosynthesis tool found in CAS SciFinder.
- View experimental and predicted property data and spectra.
- Access pharmacological and bioactivity data.
- Assess the IP landscape with AI-driven visualizations, integrated patent information, and Markush structure searching.
- Compare products and pricing from chemical vendors.
- Find step-by-step methods from peer-reviewed journals using CAS Analytical Methods™.
- Discover existing and design new formulations using CAS Formulus®.

Easy-to-use, AI-enabled tools, integrated with the world's largest collection of scientific information to quickly find answers to your questions.

How do I.....search literature?

When? Writing introduction to thesis, wanting applications of lecture material, writing research proposal or literature review, discovering similar research/research groups...

How?

A) Type natural language or Boolean Operator search into omni-box
(easy to use, recommended to start quite broad and refine with filters)

B) Build 'Advanced query' where can enter specific information
(lots of helpful specific options, can build complex queries)

C) Use the CAS Lexicon – the 'dictionary' of CA indexing terms for concepts, chemical classes and taxonomic vocabulary

(good for initial or broad topic searches, and linking together different ideas)

Reminder: CAS content includes
journals, patents, preprints,
theses, books, conference
abstracts.....
plus MEDLINE

How do I... search the literature?

Natural language search – See [SEARCH HERE](#)

Good Afternoon, Miriam

sustainable materials for lithium batteries × Draw Q

Featured Search View Less

- Advanced Search**
Select data fields and search operators to create a focused query.
- Search CAS Lexicon**
Build powerful searches using CAS concepts, chemical classes, and taxonomy.
- Patent Markush**
Search Patent Markush by structure and view associated references.
- Retrosynthetic Analysis**
Make reaction plans with conditions, yields, catalysts, and experimental procedures.
- Search CAS Sequences**
Query BLAST, CDR, and Motif algorithms for nucleotide and protein based sequences.
- Prior Art Discovery**
AI-enhanced prior art search for patent professionals.

How do I... search the literature?

Advanced search

Good Afternoon, Miriam

The effect of antibiotic residues on dairy products

Featured Search

Advanced Search
Select data fields and search operators to create a focused query.

Search CAS Sequences
Query BLAST, CDR, and Motif algorithms for nucleotide and protein based sequences.

Advanced Search

Select a search type, and then add multiple search fields to build a query. ?

Substances **References** Clear All

sustainable materials for lithium batteries

- AND Author/Inventor Name
Example: Schubert, J A
- AND Authors/Inventors
Example: UCHIME | AlphaFold
- AND Publication Name
Example: KEGG for taxonomy-based analysis of pathways and genomes
- AND Organization
Example: Computational biology | CRISPR-Cas system | Photocatalytic decomposition
- AND Title
- AND Abstract/Keywords
- AND Concept
- AND Substances
- + Add Life Science Data
- Publication Year
- Document Identifier
- Patent Identifier
- Publisher



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How do I... search the literature?

CAS Lexicon

Good Afternoon, Miriam

The effect of antibiotic residues on dairy products

Featured Search

- Advanced Search**
Select data fields and search operators to create a focused query.
- Search CAS Lexicon**
Build powerful searches using CAS concepts, chemical classes, and taxonomy.
- Search CAS Sequences**
Query BLAST, CDR, and Motif algorithms for nucleotide sequences.
- Prior Art Discovery**

Search CAS Lexicon

Food analysis

Multiple preferred concepts found; please select one to continue.

- Food analysis
- Wine analysis
- Nitrogen radical absorbance capacity assay

Search CAS Lexicon

Food analysis

Preferred Concept

Food analysis
This will search synonyms: Food analyses; Foods analysis; MeSH ID: D005504

Broader Concepts (3)

- Food processes and phenomena
- Food technology
- Materials analysis

Narrower Concepts (9)

- Antimicrobial effectiveness test
- Beer analysis
- Hydroxyl radical antioxidant capacity assay
- Malondialdehyde detection assay
- Milk analysis
- Nitrogen radical absorbance capacity assay
- Oxygen radical absorbance capacity assay
- Thiobarbituric acid reactive substances assay
- Wine analysis

Related Concepts (2)

AND OR NOT

How do I... search the literature?

CAS Lexicon – See [SEARCH HERE](#)

Video Guide:

<https://www.cas.org/training/lesson/search-the-cas-lexicon-in-cas-scifinder>

Search CAS Lexicon [Learn more about CAS Lexicon searching.](#)

Search a concept to start (ex. Biomass)... Search Concept

^ Preferred Concept

Pesticides This will search synonyms: MeSH ID: D010575; [Pesticide](#)

^ Broader Concepts (1) Select All

Biocides

^ Narrower Concepts (21) Select All

- Acaricides
- Aerosol pesticides
- Benthialvalicarb
- Biopesticides
- Carbamate pesticides
- Dithianon
- Effervescent pesticides
- Fumigants
- Fungicides
- Herbicides
- Industrial pesticides
- Insecticides

Food analysis - Preferred Concept x

^ Food analysis - Narrower Concepts (9)

AND Remove All

Pesticides - Preferred Concept x

^ Pesticides - Narrower Concepts (21)

Add to Query

Clear Query

... and then:

Filter and/or search within results

Video Guide:
<https://www.cas.org/training/lesson/filtering-results-in-cas-scifinder>

References search for 32 CAS Lexicon Concepts

The screenshot shows a search interface for 32 CAS Lexicon Concepts. The main search results area displays 6,842 results, sorted by Relevance, with a view of Partial Abstracts. Two results are visible:

- Result 1:** "Rapid analysis of pesticide residues in food using surface-enhanced Raman spectroscopy" by Chen, Yang; Li, Gong-ke; Hu, Yu-ling. Published in Fenxi Kexue Xuebao (2015), 31(3), 307-312. The abstract describes the use of Au@SiO₂ and Au nanoparticles as enhanced substrates for analyzing pesticides in food.
- Result 2:** "High resolution accurate mass multi-class multi-residue screening method for the analysis of honey samples collected from various parts of Kerala state, India using LC-QTOF" by Prasanth, J.; Vincy, M. V.; Brilliant, R.

Annotations include:

- A red box around the **Filter Results** sidebar on the left, which includes an "Analyze Results" button, "Behavior" filters (Filter by/Exclude), and "Search Within Results" options.
- A red box around the **Analyze Results** panel on the right, which displays a horizontal bar chart of "Top Concepts".

Concept	Count (Approximate)
Food analysis	6,500
Pesticides	4,000
Food contamin...	3,500
Vegetable	1,500
Gas chromatog...	1,200
Pesticide Resi...	1,000
Organophosph...	1,000
Gas chromatog...	1,000
Insecticides	1,000
Solid phase ex...	1,000

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... and then:

Set up a citation alert: does anyone cite this specific document?

📄 Rapid analysis of pesticide residues in food using surface-enhanced Raman spectroscopy

Set Citing Alert

Name
Food analysis - pesticides

Add Existing Tags (Optional)

- acacia
- agro
- antitumor
- API industrial manufactur
- aspirine
- biosensor

New Tag (Optional)
Add tag name

Tag Color
Light Blue

Alerts Alerts

Frequency
Weekly

Add Email(s)
rgibson@acs-i.org

Cancel Save

... and then:

Set up a search alert: are there new answers for your query?

References search for 32 CAS Lexicon Concepts

The screenshot displays the CAS Scifinder interface. On the left, there is a 'Filter Results' sidebar with options like 'View Related Results', 'Analyze Results', and 'Search Within Results'. The main area shows search results for 'Food analysis and pesticides', with a highlighted article titled 'Rapid analysis of pesticide residues in food based on surface-enhanced Raman spectroscopy'. A 'Save Results' dialog box is open in the foreground, allowing users to save the current search results. The dialog includes a 'Name' field (filled with 'Food analysis and pesticides'), 'Search Options' (set to 'All Answers (Up to 20,000)'), a list of 'Add Existing Tags' (including 'acacia', 'agro', 'antitumor', 'API industrial manufactur', 'aspirine', and 'biosensor'), a 'New Tag (Optional)' field, a 'Tag Color' dropdown (set to 'Light Blue'), an 'Alerts' toggle switch (which is turned on and circled in red), and a 'Frequency' dropdown (set to 'As Available'). The dialog also features 'Cancel' and 'Save' buttons. A red arrow points to the 'Save Results' button in the top right corner of the dialog.

Video Guide:

<https://www.cas.org/training/lesson/saving-answers-and-setting-alerts-in-cas-scifinder>

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... and then:

Add to a project (a working folder for references and substances)

Video Guide:

<https://www.cas.org/training/lesson/using-projects-in-cas-scifinder>

References search for 32 CAS Lexicon Concepts

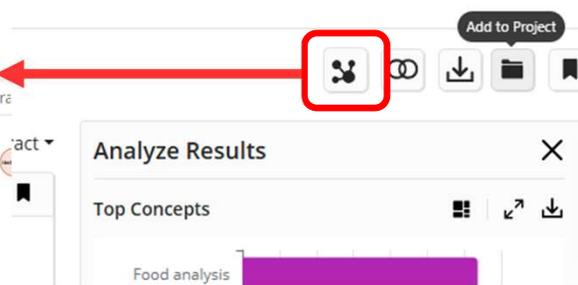
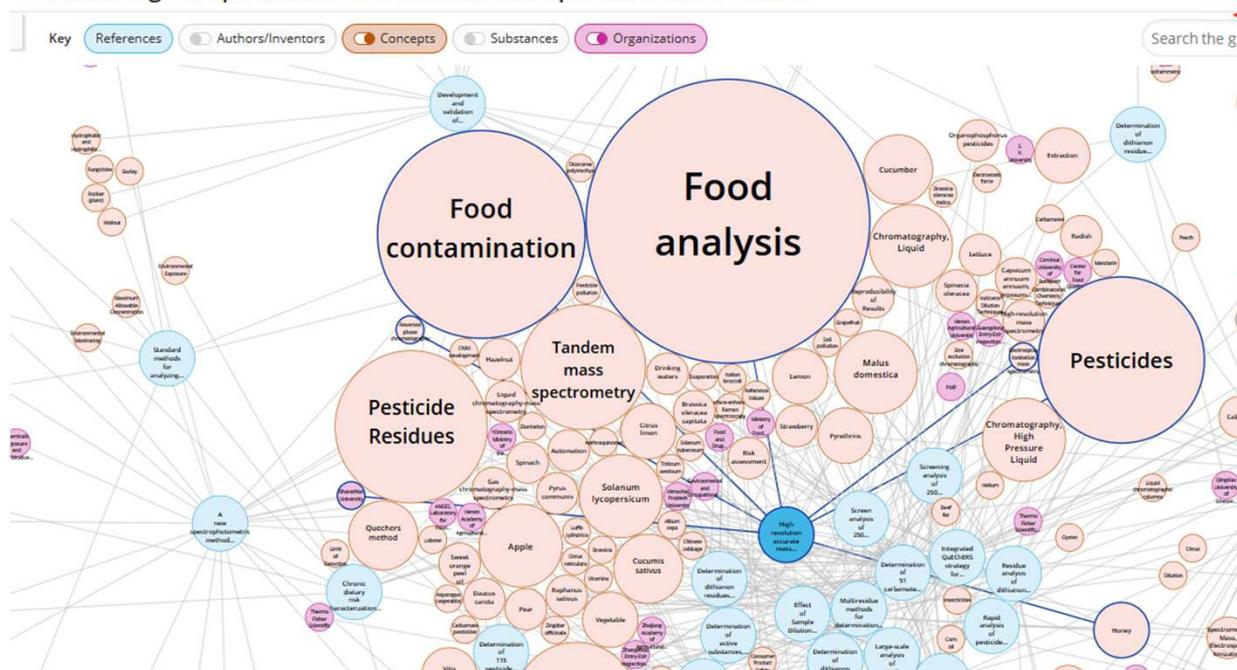
The screenshot displays the CAS Scifinder interface. On the left, a 'Filter Results' sidebar is visible, including options for 'Analyze Results', 'Behavior' (Filter by, Exclude), 'Search Within Results', and 'Substance Role' (Analytical Study, Occurrence, Biological Study). The main search results area shows 6,842 results with 100 selected. The first result is highlighted with a red box and a checkmark: 'Rapid analysis of pesticide re Raman spectroscopy' by Chen, Yang; Li, Gong-ke; Hu, Yu-ling; Fenxi Kexue Xuebao (2015), 31(3), 307-314. Below it, a second result is partially visible: 'High resolution accurate mas for the analysis of honey sam state, India using LC-QTOF'. An 'Add to Project' dialog box is open on the right, featuring a red arrow pointing to the 'Add to Project' button in the top right corner of the search results area. The dialog box includes fields for 'Project Name' (New Project Title), 'Add a Description', and 'Project Color' (Lime). It also lists 'Existing Projects' with checkboxes: 'Food analysis' (checked), 'OKV 39', 'Argentina', and 'Dry eye'. At the bottom of the dialog are 'Cancel' and 'Save' buttons. The CAS logo is in the bottom right corner.

... and then:

Explore a knowledge graph: explore the answer set concepts, authors etc.

References search for 32 CAS Lexicon Concepts

Knowledge Graph from 32 CAS Lexicon Concepts References Search



Knowledge Graph – [See it HERE](#)

Video Guide:

<https://www.cas.org/training/lesson/using-the-knowledge-graph-in-cas-scifinder>

... and then:

Explore a citation map: delve deeper into linked references

Filter Results

Behavior

Filter by Exclude

Document Type

- Journal (76)
- Review (11)
- Conference (2)

Flags

- Has DOI (76)
- Has Related Substances (65)
- Has Related Reactions (1)

Author/Inventor

- Wang, Ying (4)
- Yang, Fei (4)
- Zhang, Kai (4)
- Banerjee, Kaushik (3)
- Ji, Yuan (3)

View All

Concept

- Tandem mass spectrometry (29)
- Food analysis (28)
- Chromatography, Liquid (26)

Citation Map for Effect of Sample Dilution on Matrix Effects in Pesticide Analysis of Several Matrices by Liquid Chromatography-High-Resolution Mass Spectrometry

By: Yang, Paul; Chang, James S.; Wong, Jon W.; Zhang, Kai; Krynitsky, Alexander J.; Bromirski, Maciej; Wang, Jian
Journal of Agricultural and Food Chemistry (2015), 63(21), 5169-5177 | Language: English, Database: CAPus and MEDLINE

Full Text

385 0 51 Citation Map

Citation Map Key

- Cited by Root Document
- References Citing Root Document

View 2 More View 25 More View 10 More

Reset

How do I...learn about a substance (or type of)

When? working with substance in a lab, choosing substances for a specific purpose, identifying unknown substances, discovering properties and applications

How?

A) Type substance name (or type), CAS RN or identifier into omni-box
(quick, best for when you know exactly what you want and how to find it)

B) Draw substance structure using drawing tool (including generic R groups)
(high level of specificity including variations)

C) Advanced substance search using properties/analysis values
(great for unknown substances or exploring substance options that fit requirements)

Video Guides:

<https://www.cas.org/training/module/substance-searching>

How do I...learn about a substance (or type of)

Type substance name (or type), CAS RN or identifier into omni-box

Good Morning, Miriam

- Aspirine
- Aspirine C
- Aspirina
- ...

Commercial name: [see SEARCH HERE](#)

Good Morning, Miriam

CAS Registry number: [see SEARCH HERE](#)

Good Morning, Miriam

Identifier: [see SEARCH HERE](#)

How do I...learn about a substance (or type of)

Draw substance structure using drawing tool (including generic R groups)

Good Morning, Miriam

Proton nmr spectral data for C13H13Br

Draw



SciFinder

CAS Draw

Select Search Type

Substances References Reactions Suppliers Patent Markush All

Enter a Systematic Name, CAS Registry Number

Molecular Formula: Formula is not available

Zoom: 100%

Cancel OK

CAS
A division of the
American Chemical Society

How do I...learn about a substance (or type of)

Advanced substance search using known properties/analysis values

Good Morning, Miriam

The effect of antibiotic residues on dairy products

Featured Search

- Advanced Search**
Select data fields and search operators to create a focused query.
- Search CAS Sequences**
Query BLAST, CDR, and Motif algorithms for nucleotide and protein based sequences.

Advanced Search

Select a search type, and then add multiple search fields to build a query. ?

Substances | References | Clear All

Search by Substance Name, Functional Group, CAS RN, Patent Number, PubMed ID, AN, CAN, and/or DOI.

⋮ - Molecular Formula Enter a molecular formula. Examples: C6H6 | (C8H8)x | C22H26CuN2O5.C2H3N

⋮ AND CAS Registry Number > le entries must be delimited by a comma, space, or semicolon. Examples: 57-88-5 | 101600

Chemical Identifier >

Document Identifier >

Patent Identifier >

Experimental Spectra >

Life Science Data  >

Biological >

Chemical Properties >

Density >

- Electrical >
- Lipinski >
- Magnetic >
- Mechanical >
- Optical and Scattering >
- Structure Related >
- Thermal >

AI-enhanced prior a professionals.

How do I...search existing reactions?

When? Discover real-world examples of learnt reactions, writing procedures for teaching labs, making known substances, learning general reaction conditions

How?

- A) Type general (e.g. named) or specific reaction into omni-box
(understands 'synthesis of', 'catalyzed by', 'in [solvent]', from [starting material]')
- B) Draw specific reactions (or add variation using R groups) with draw tool
- C) Locate a substance and click 'get reactions' or 'synthesize'
- D) Synthesising a known or new substance (multiple reactions): Retrosynthesis

Who?
Chemistry and related fields

How do I...search existing reactions?

Type general type or specific reaction into omni-box – See [SEARCH HERE](#)

Good Morning, Miriam

iridium catalyzed synthesis of cyclic ketones from phenols in acetone



Search for a reaction using natural language phrasing.

Query Examples:

- *Water as a solvent for synthesis of toluene*
- What can I synthesize with Fmoc-Gly-OH and iron catalyst?
- Chromium dichloride catalyzed Nozaki-Hiyama-Kishi reactions

Reaction Procedure Searching

Search for procedures/synthetic methods for a given reaction using natural language or CAS reaction number.

Query Examples:

- how to synthesize benzenamine, 3-methoxy- with copper catalyst
- protocols to make toluene catalyzed by copper
- how to make ibuprofen
- suzuki coupling procedures

Reactions by Yield

Search for reactions with specific yields or yield ranges through natural language.

Query Examples:

- synthesis of ibuprofen with 80-86% yield with pdcl2 catalyst
- Water as a solvent for synthesis of toluene with high yield
- Michael addition yield = 80

Video Guide:

<https://www.cas.org/training/lesson/text-based-reaction-searching-in-cas-scifinder>

How do I...search existing reactions?

Draw specific or general reactions (using R groups) with draw tool –

The screenshot shows the CAS Draw software interface. At the top, there is a 'CAS Draw' dropdown menu and a 'Select Search Type' section with buttons for 'Substances', 'References', 'Reactions', 'Suppliers', 'Patent Markush', and 'All'. Below this is a search bar with the text 'Enter a Systematic Name, CAS Registry Number' and a search icon. A central workspace displays a chemical reaction: a reactant consisting of a benzene ring with an R1 group and a vinyl group, reacting to form a product consisting of a benzene ring with an R1 group and a ketone group (with an X substituent on the alpha carbon). The workspace includes a toolbar with various drawing tools and a zoom slider. At the bottom, there is a 'Molecular Formula: Formula is not available' field, an 'R1' input field, and 'Cancel' and 'OK' buttons.

See [SEARCH HERE](#)

Video Guide:

<https://www.cas.org/training/lesson/search-reactions-with-drawn-structures-in-cas-scifinder>

How do I...search existing reactions?

Locate a substance and click 'Get Reactions' or 'Synthesize'

CAS Registry Number
137862-53-4

CAS Name
Valsartan

Get Substance Details

Get Life Science Data

Get Reactions (906)

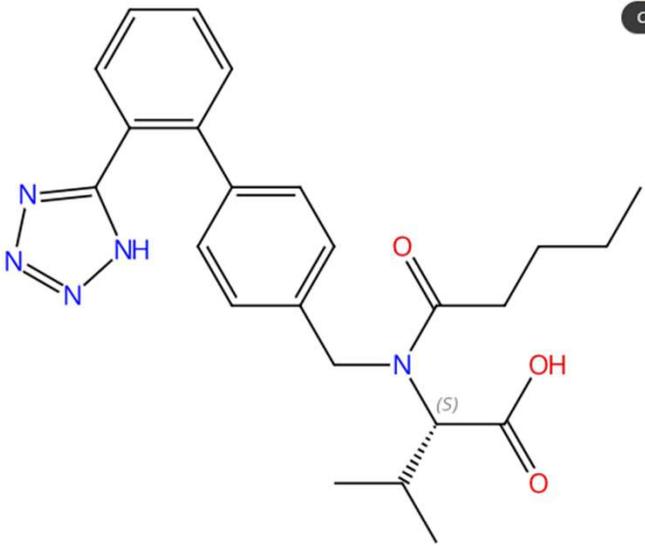
Synthesize (811)

Start Retrosynthetic Analysis

Get References (11K)

Get Suppliers (120)

View in CAS BioFinder



Absolute stereochemistry shown

Edit Structure - Reset + Download

Or 'View Related Results' and 'Reactions'

Substances search for "valsartan"

All Substances Reactions References Suppliers

View Related Results

How are these results different? [Learn more.](#)

References

Reactions

Suppliers

Search for up to 3 structures within the result set.

Draw

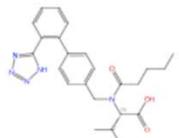
Search

Reaction Role

1 Selected 1 Result

1

137862-53-4



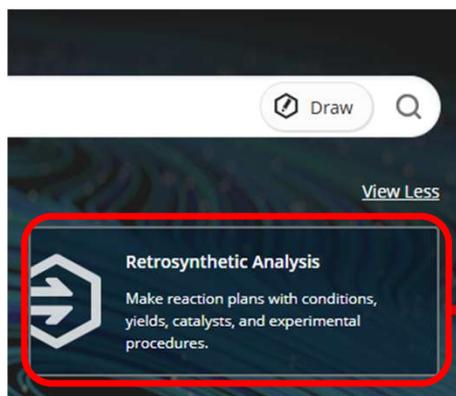
Absolute stereochemistry shown

$C_{24}H_{29}N_5O_3$
Valsartan

11K 906 120

How do I...search existing reactions?

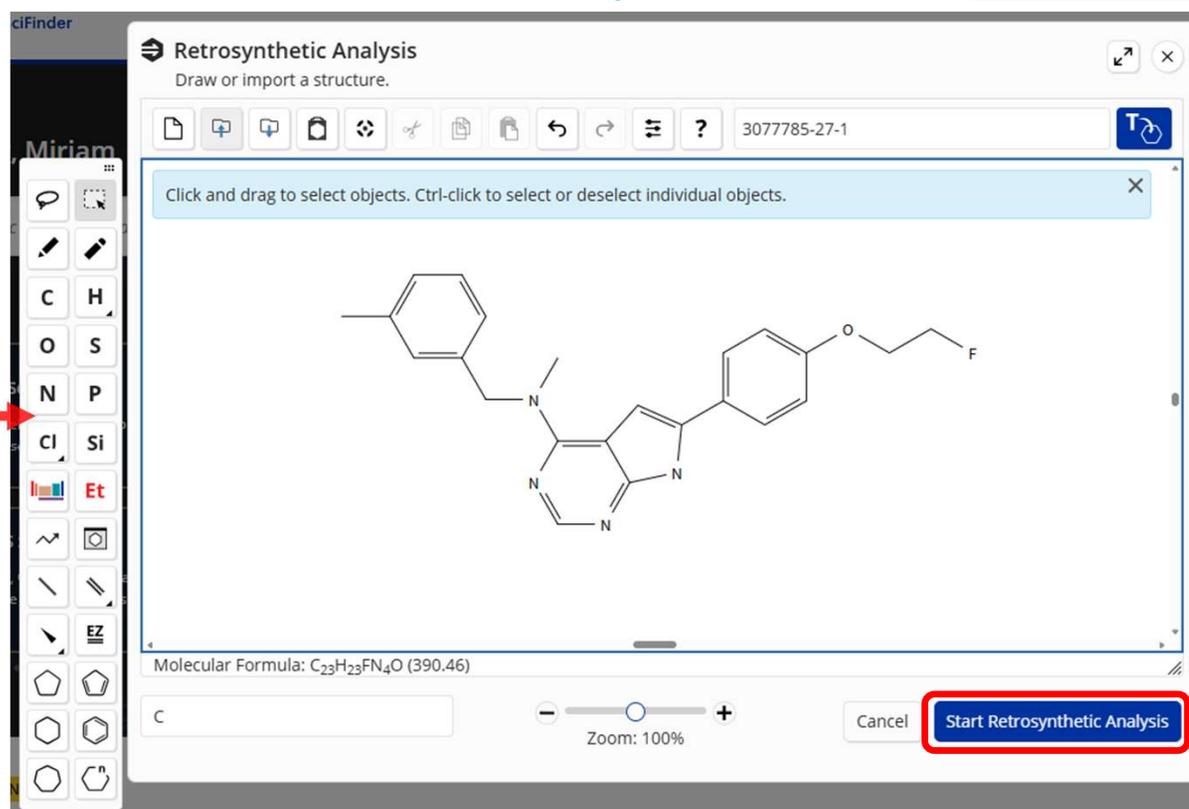
Synthesising a known or new substance: Retrosynthesis – See [SEARCH HERE](#)



Video Guides:

<https://www.cas.org/training/lesson/starting-a-retrosynthesis-plan-in-cas-scifinder>

<https://www.cas.org/training/lesson/working-with-a-retrosynthesis-plan-in-cas-scifinder>



How do I...explore patent literature/patented substances?

When? Exploring which research areas have IP space, learning if a molecule is patented, learning if researchers can patent their work

How?

A) Reference search (omni-box or advanced)

B) Prior Art Discovery search

(finds similar relevant patents and non-patent literature by analysing title, abstract, claims and CAS indexing)

C) Patent Markush search

(searches for substances from patent generic structures)

How do I...explore patent literature/patented substances?

Advanced reference search – See [SEARCH HERE](#)

Substances **References** Clear All

Search by Keyword, Substance/Functional Group Name, CAS RN, Concept, Patent Number, PubMed ID, AN, CAN, and/or DOI.

Author/Inventor Name Enter last name, first name middle name. Example: Schubert, J A

AND Publication Name Enter Keywords or abstract terms.

Organization Examples: UCHIME | AlphaFold

AND Title Enter a Reference title.

Abstract/Keywords Example: KEGG for taxonomy-based analysis of pathways and genomes

AND Concept Enter one concept.

Substances Examples: Computational biology | CRISPR-Cas system | Photocatalytic decomposition

+ Add Life Science Data

Publication Year

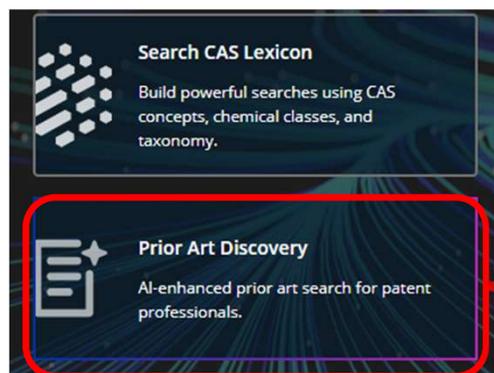
Document Identifier

Patent Identifier Patent Number

Publisher Classification Code

How do I...explore patent literature/patented substances?

Prior Art Discovery search – See [SEARCH HERE](#)



Search CAS Lexicon
Build powerful searches using CAS concepts, chemical classes, and taxonomy.

Prior Art Discovery
AI-enhanced prior art search for patent professionals.

Prior Art Discovery

Prior Art Discovery uses CAS AI tools to find similar patents and non-patent literature results. Please input a minimum of 200 characters from an invention disclosure or draft application. [Learn more about Prior Art Discovery.](#)

Synthesis of molecular transition metal porphyrinato complex nanocapsules to be used for the selective separation and or purification of fullerenes.
The synthesis must be formed by self-assembly and based on tetracarboxylated (metallo)porphyrins and metal macrocyclic compounds, joined by M-carboxylate binding.

Priority Date: 2025-10-21 [Edit](#) 

311 / 10,000 characters [Clear Text](#)

Add Structure (Optional)

 Draw

Search

Video Guide:

<https://www.cas.org/training/lesson/exploring-patent-data-in-cas-scifinder>

How do I...explore patent literature/patented substances?

Patent Markush search (for substances) – See [SEARCH HERE](#)

The screenshot displays the CAS Draw software interface. At the top, there are three main search options: 'Advanced Search', 'Search CAS Lexicon', and 'Patent Markush'. The 'Patent Markush' option is highlighted with a red box and a red arrow pointing to the 'Patent Markush' tab in the 'Select Search Type' menu. Below the menu, there is a search input field with the placeholder text 'Enter a Systematic Name, CAS Registry Number'. The main workspace shows a chemical structure of a complex molecule with a naphthalene core, a cyano group (NC), a methoxy group (OMe), and a carbonyl group (C=O). The molecular formula is displayed as $C_{23}H_{15}NO_2$ (337.38). The interface also includes a toolbar on the left and a periodic table on the right.

Video Guide:

<https://www.cas.org/training/lesson/markush-searching-in-cas-scifinder>

How do I...explore methods of analysis?

When? made a new substance, analysing known substances, designing own analysis studies, analytical science teaching labs, applications of taught methods

How? : 

- A) Search analyte or matrix in omni-box
- B) Build query using Advanced Search
- C) Explore general fields using 'Explore Methods'
- D) Use link from SciFinder filters



Who?

- Agricultural science
- Biology
- Chemistry (org/inorganic)
- Environmental science
- Food science
- Fuels
- Historical analysis/dating
- Polymer science
- Pharmacology

How do I...explore methods of analysis?

CAS Analytical Methods – See [SEARCH HERE](#)

Good Morning, Miriam

Search for keywords, matrices or analyte.

Explore Methods
Search methods using criteria like method categories and subcategories.

Advanced Search
Search methods using criteria like keywords, analytes, matrices and more.

← Return to Home

Advanced Search

Analyte

AND Matrix

Add Search Criteria

Video Guide:
<https://www.cas.org/training/lesson/using-advanced-search-in-cas-analytical-methods>

How do I...explore methods of analysis?

Explore Methods – See [SEARCH HERE](#)

Search for keywords, matrices or analyte.

Explore Methods
Search methods using criteria like method categories and subcategories.

Explore Methods

Category

- Agricultural Applications / Analysis
- Bioassays
- Biomolecule Isolation
- Environmental Analysis
- Food Analysis**
- Fuels / Geology / Biofuels
- Historical Analysis / Dating
- Miscellaneous
- Organic Compound Analysis
- Organometallics / Inorganics
- Pharmacology / Toxicology
- Polymer Analysis
- Water Analysis

Category Name

- Antioxidant Assay**
- Fatty Acid Analysis
- Fatty Acid Ester Analysis
- Food Analysis
- Pesticide Residue Analysis
- Protein Analysis

Include Keywords (Optional)

flavonoids

+ Add Another Keyword

Search Methods

Video Guide:

<https://www.cas.org/training/lesson/using-explore-methods-in-cas-analytical-methods>

How do I...explore methods of analysis?

Using links from SciFinder

From a Reference answer set -
Filters

View Related Results ▾

- Has PatentPak (6,221)
- Has Related Substances (21K)
- Has Related Reactions (261)
- Has Markush (164)
- CAS Content
- Formulations (1,467)
- Analytical Methods (1,151)

Organization

Life Science Data 

CA Section

From reference details

In This Reference

- [CAS Concepts](#)
- [Substances](#)
- [Analytical Methods](#)
- [Cited Documents](#)

From reference details

^ Analytical Methods

Method Title

[Analysis of Parathion in Lactuca sativa by Reversed-phase HPLC](#) ↗

How do I...explore formulations and their ingredients?

When? Learn about ingredients, considering replacing ingredients in formulations, learn contents of known formulations, explore potential ingredients for a specific purpose...

How? CAS Formulus

A) Search in omni-box for Formulations or Ingredients

(simple search by ingredient, purpose, form, function....)

B) Build query using Advanced Search

(can build specific and complex searches including 'required, optional or excluded' options)

C) Use link from CAS SciFinder filters

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Who?
Pharmaceutical sciences
Cosmetics/personal care
Agrochemical
Cleaning/surfactants
Inks, paints, coatings
Food and nutrition



How do I...explore formulations and their ingredients?

CAS Formulus – See [SEARCH HERE](#)

Formulations Ingredients

Search by Formulations by Ingredients, Purpose, Form, Functions, etc.

Formulation Designer
Design custom formulation templates based on selections and ingredients

Advanced Search
Search Formulations using criteria like ingredients, targets, and more.

Advanced Formulations Search ?

Search the following content fields: Ingredient, Function, Purpose, Physical Form, Delivery Route, and Target.

Search For Operator Enter one term

Ingredient Required Avobenzone

Include a Function for this Ingredient (Optional)

Function UV filter

Search For Operator Enter one term

Purpose Required Sunscreen

Add Another Term

Search

Video Guide:

<https://www.cas.org/training/lesson/exploring-advanced-search-functions>

How do I...explore formulations and their ingredients?

Using links from SciFinder

From a Reference answer set

View Related Results ▾

- Has Related Substances (26K) ▲
- Has Related Reactions (1,408)
- Has Markush (2,820)
- ^ CAS Content
- Formulations (10K)
- Analytical Methods (345)
- ▾ Organization
- ▾ Life Science Data 
- ▾ CA Section
- ^ Publication Year

From reference details

In This Patent

- [Claims](#)
- [Classifications](#)
- [CAS Concepts](#)
- [Substances](#)
- [Formulations](#)

From reference details

^ Formulations

Formulation Title

[Mouthwash Composition](#) ↗

[Homecare Composition: Home and House Care Products](#) ↗

[Body Wash Composition](#) ↗

[Mouthwash Composition](#) ↗

[Body Wash Composition: Body Washes](#) ↗

How do I...explore formulations and their ingredients?

Designing a new formulation?

Formulations Ingredients

Search by Formulations by Ingredients, P

Formulation Designer
Design custom formulation templates based on selections and ingredients

Formulation Designer Clear All Selections

Industry	Purpose	Physical Form	Add up to 5 Ingredients
Pharmaceutical Cosmetics & Personal Care Agrochemical Cleaning & Surfactant Products Inks, Paints, & Coatings Food & Related	Drug delivery systems Pharmaceutical formulations Antitumor agents Anti-inflammatory agents Analgesics Antibacterial agents Ophthalmic agents Antidiabetic agents Antiviral agents Antihypertensives - View More Purposes -	Tablets Solutions Gels Capsules Powders Cream preparations Liquids Pharmaceutical ointments Particles Suspensions - View More Physical Forms -	Ibuprofen + Add Another Ingredient

Create Template

Video Guide:

<https://www.cas.org/training/lesson/using-formulation-designer-to-create-novel-formulation-templates>

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How do I...use SciFinder to support my career?

When? Coming to the end of degree, looking for a collaboration for research, applying for a job (writing cover letter, preparing for interview)

How?

- A) Research organisation: reference search for Organisation using Advanced Search
- B) Search scientist: reference search using Advanced Search for Author (e.g. interviewer)

Advanced Search

Select a search type, and then add multiple search fields to build a query. [?](#)

[Learn more about Advanced Search.](#)

Substances References Clear All

Search by Keyword, Substance/Functional Group Name, CAS RN, Concept, Patent Number, PubMed ID, AN, CAN, and/or DOI. Draw Q

Organization

AND Author/Inventor Name Enter last name, first name middle name.

Video Guide:

<https://www.cas.org/training/lesson/author-and-organization-search-in-cas-scifinder>

- C) Reference search by topic/field/concept, and explore *filters* for top organisations and authors
- D) *Coming soon....ask CAS SciFinder directly!*

THANK YOU

Let us know your feedback and/or requests for future sessions



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