

CAS SciFinder Discovery Platform™

# INNOVATE WITH CONFIDENCE

CNR: AREE DI BOLOGNA E NAPOLI - 01.07.2025

**CAS**

A division of the  
American Chemical Society



**Accelerate  
breakthroughs  
and get discoveries to market faster**



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# Connecting scientific knowledge to accelerate breakthroughs

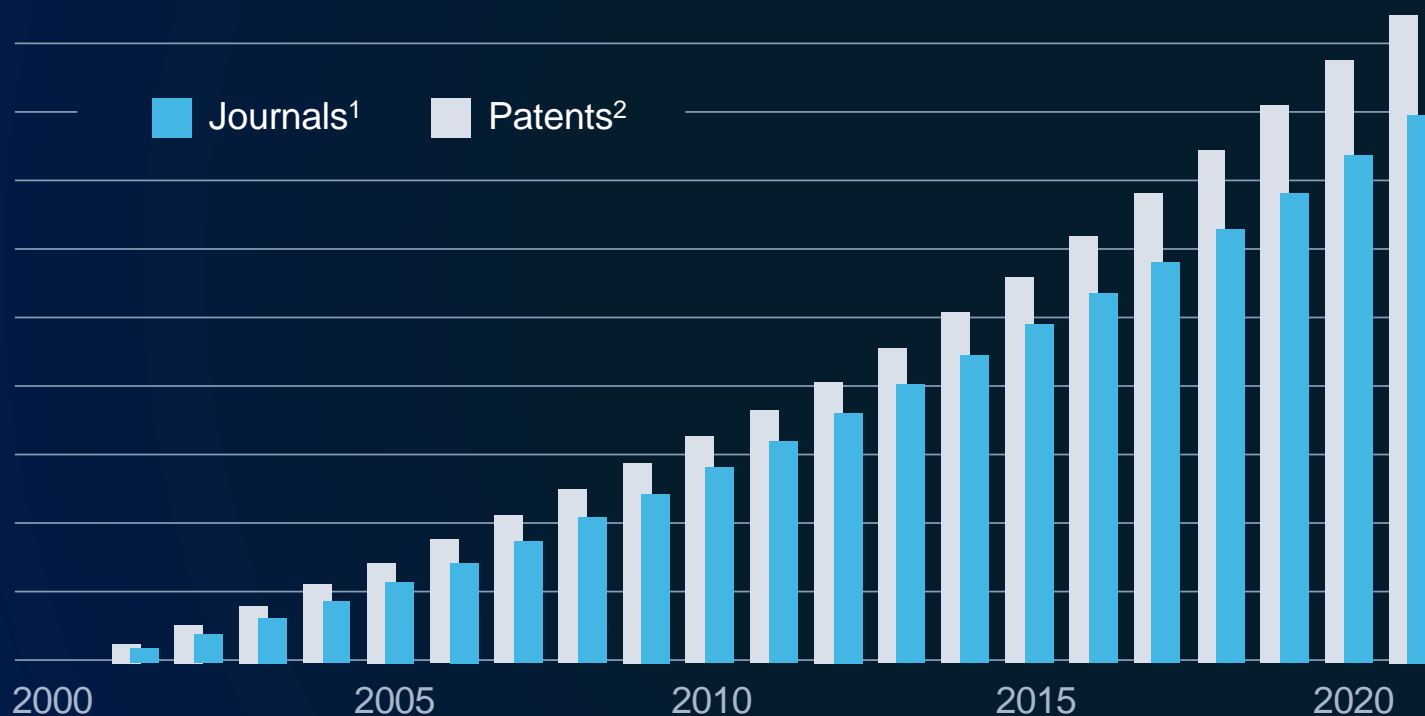
For over a century, CAS has championed and amplified scientific discovery, innovation, and the individuals and organizations that contribute to breakthroughs big and small.

**Today, we continue to connect the world's scientific knowledge to accelerate breakthroughs that improve lives.**



# The volume and complexity of scientific information is escalating exponentially

## Growth of published science last 20 years



### HIGH VOLUME

Limits holistic perspective

### LACK OF CONSISTENCY

Hinders effective analysis

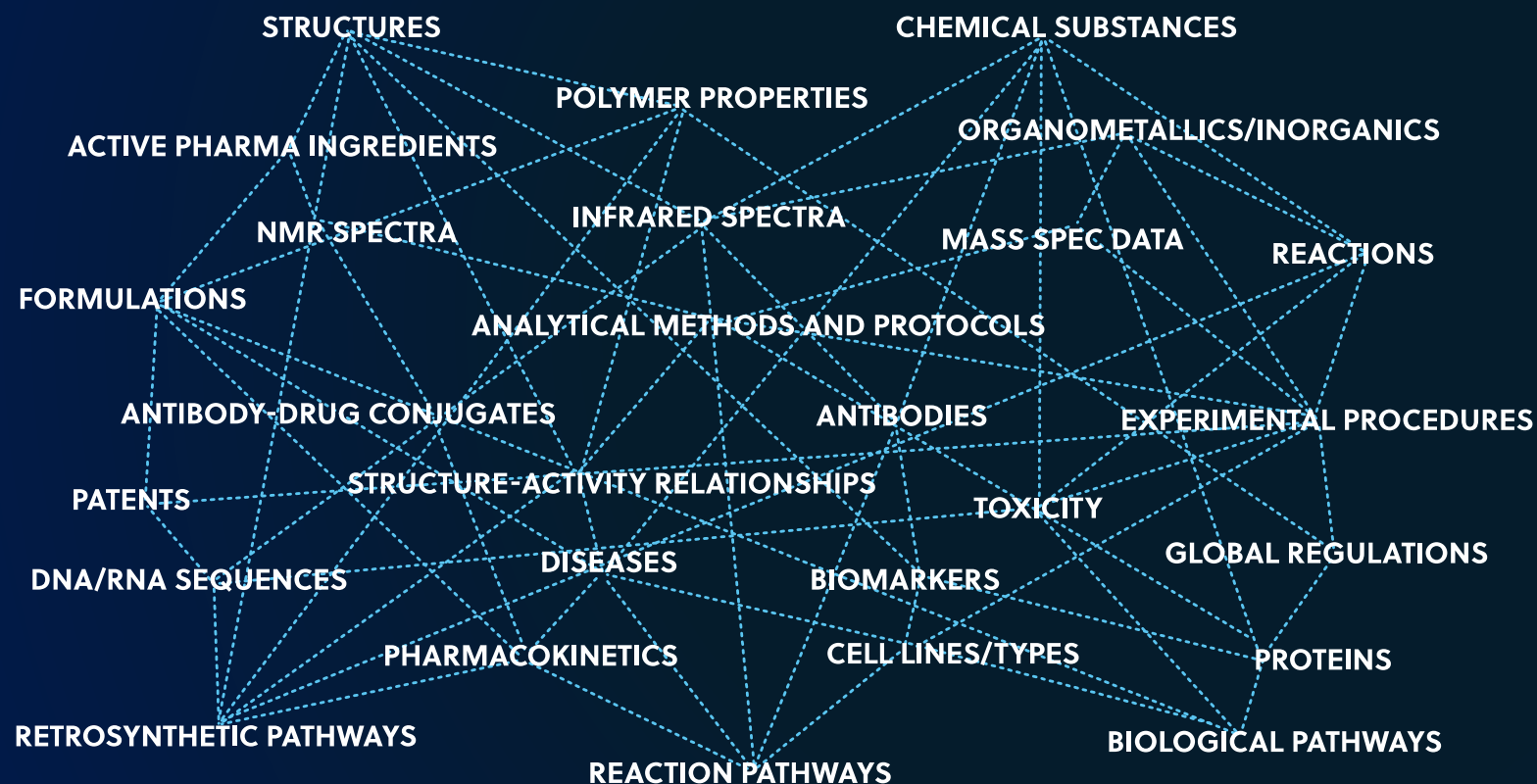
### POOR COMPATIBILITY

Reduces digitalization ROI

1. Hanson, Mark & Gomez Barreiro, Pablo & Crosetto, Paolo; Brockington, Dan. (2023). The strain on scientific publishing. 10.48550/arXiv.2309.15884

2. WIPO statistics database. Last updated: November 2023

# CAS connects you to the world's published science for better insights



Over  
**50K**  
scientific journals  
and documents

Over  
**290**  
million  
substances

Over  
**50**  
languages  
translated

**109**  
patent offices  
worldwide

# Our unique assets and capabilities

Streamline the innovation journey



## Intelligently connected content

CAS has the world's largest collection of human-curated scientific knowledge.



## Specialized technology

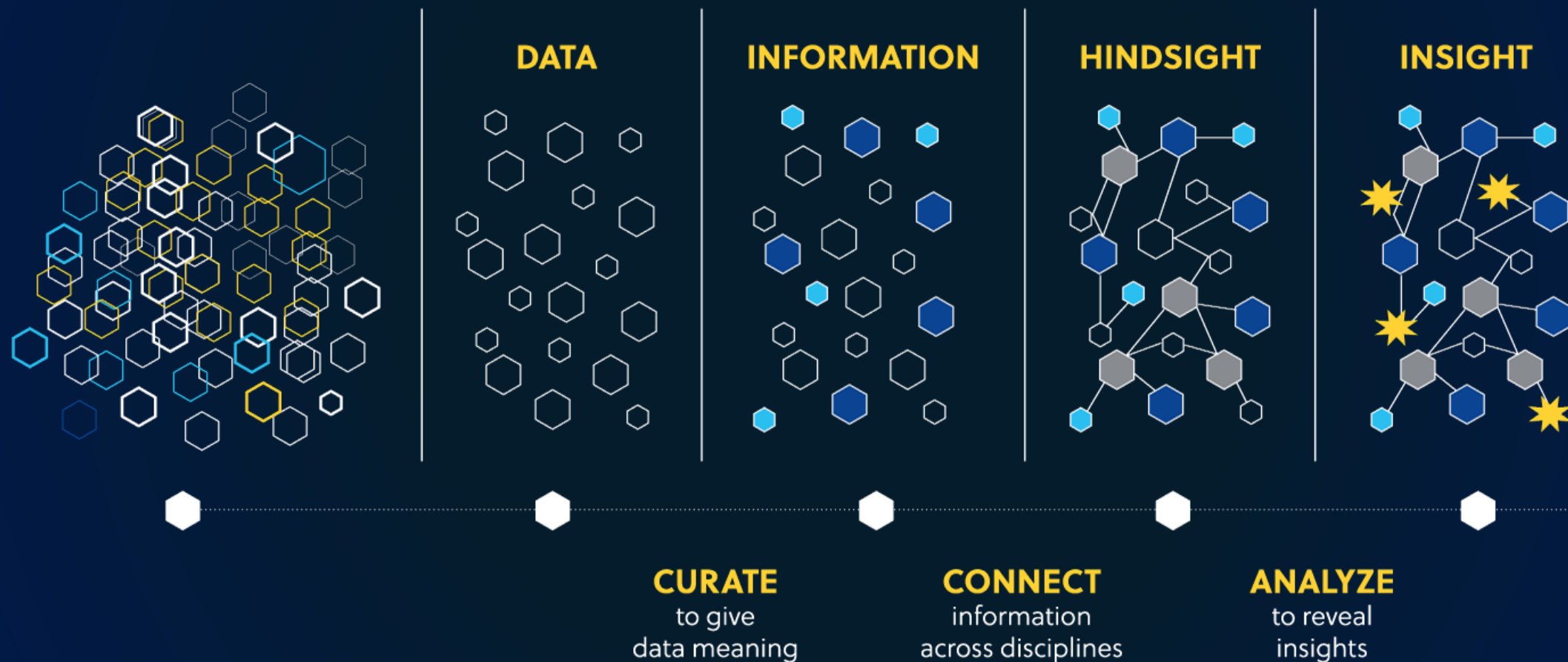
Our expert team has been pioneering scientific information technology for over 70 years.



## Interdisciplinary human expertise

Our global team of hundreds of scientists and technologists boasts broad scientific experience and deep knowledge of emerging information technologies.

# Data is valuable only when it is transformed into insight



# CAS is a trusted partner

To innovation leaders across industries



**TOP 25**  
**LIFE SCIENCES**  
**COMPANIES<sup>1</sup>**



**TOP 25**  
**CHEMICAL**  
**COMPANIES<sup>2</sup>**



**TOP 25**  
**UNIVERSITIES<sup>3</sup>**



**TOP 10**  
**GLOBAL PATENT**  
**OFFICES<sup>4</sup>**

1. <https://www.pharmexec.com/view/2024-pharm-exec-top-50-companies>
2. <https://www.chemanalyst.com/ChemAnalyst/ChemicalManufacturers>
3. <https://www.shanghairanking.com/rankings/gras/2024/RS0103>
4. <https://www.wipo.int/edocs/pubdocs/en/wipo-pub-941-2023-en-world-intellectual-property-indicators-2023.pdf>

# Our unique solutions and capabilities

Streamline success



Discovery

## CAS SciFinder Discovery Platform™

Get discoveries to market faster and optimize margins by giving researchers the information they need



Life sciences

## CAS BioFinder Discovery Platform™

Confidently advance your drug discovery program with integrated biological and chemistry data and analysis solutions



Intellectual property

## STN IP Protection Suite™

Ensure that your intellectual property is protected and find opportunities to extend into new markets



Custom solutions

## CAS Custom Services<sup>SM</sup>

Customized data, analytics and insights to maximize the value of information assets and fuel digitalization success

# CAS SciFinder Discovery Platform™ Includes

## CAS SciFinder®

**Speed up your science with human-curated information.**

CAS SciFinder accelerates the process of finding relevant, actionable insights. We've combed through the literature, extracting and annotating the data, concepts, and molecules you care about so that you can **innovate quickly and confidently.**

## CAS Formulus®

**Develop safe and effective products**

CAS Formulus is an integrated formulations database and workflow solution. With curated information from patents and journals spanning various industries, CAS Formulus helps formulation scientists evaluate ingredients, find suppliers, and explore regulatory requirements, **all in one easy interface.**

## CAS Analytical Methods™

**Streamline your workflow with a unified tool**

CAS Analytical Methods provides a single source for searching and comparing the latest published scientific methods across multiple fields of study. Providing easy-to-read experimental details, **CAS Analytical Methods helps get you back in the lab faster**

## CAS Chemical Compliance Index™

**Your single source for global, up-to-date, and accurate compliance and regulatory information.**

CAS CCI provides you with the **most accurate, up-to-date global chemical regulatory information** so that you can protect your company's reputation and avoid noncompliance fees, ecological disasters, and public relations fiascos.

# CAS SciFinder Discovery Platform

Accelerate innovation with access to critical information

## Unmatched Content

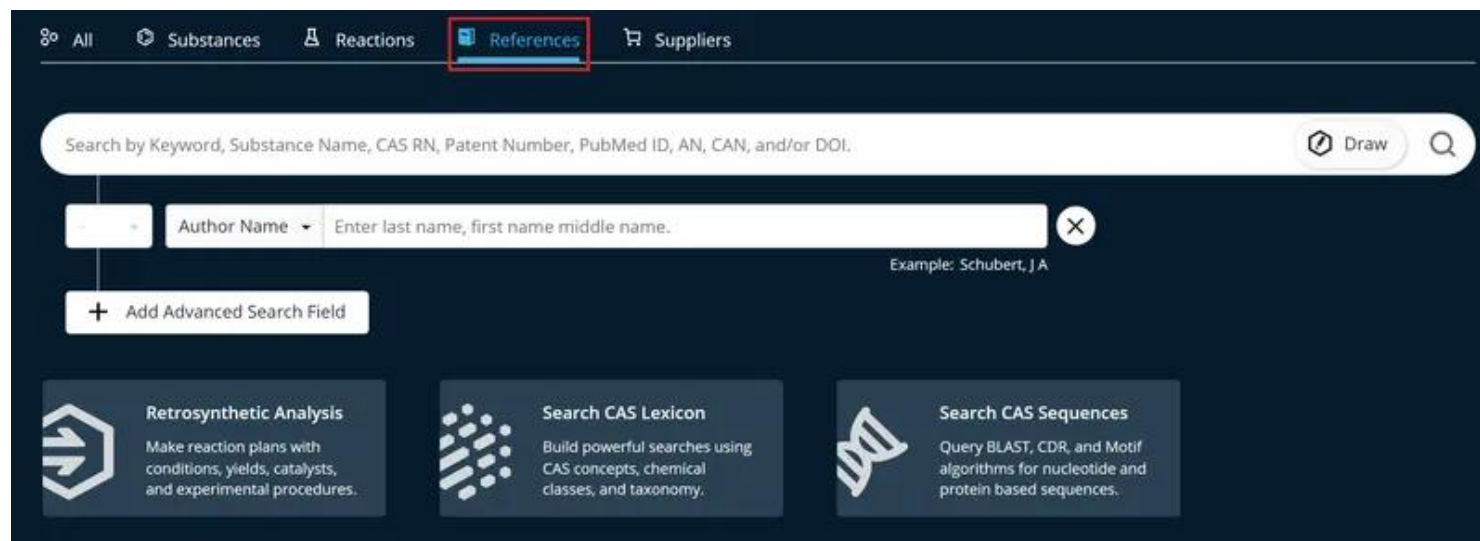
Search the most comprehensive collection of chemical reactions, substances, patents, and scientific literature.

## Specialized Technology

Combining a science-aware search engine with powerful workflow tools.

## Human Expertise

Our scientists work with technology to connect concepts and relationships that go beyond keywords.



# CAS SciFinder Discovery Platform for scientific research

## Substances

Access the world's most trusted and authoritative substance resource, CAS REGISTRY®

**>290M substances**

## Reactions

Access the latest information from the CAS Content Collection™ to discover complete reactions data **>160.4M reaction schemes of which 41.8M with fully reproducible methods**

## References

Find more relevant resources faster and easier from our comprehensive collection of scientific journals and patents (**>21.4M patent family records**)

## Suppliers

Discover commercial sources for the chemicals you need to advance your synthesis efforts.

# Coming in 2025

## **Quicker answers**

Direct, fact-based, literature-sourced answers in a fraction of the time.

## **Natural language queries**

AI-enhanced interpretation of queries leading to more precise results.

## **Expanded IP workflows**

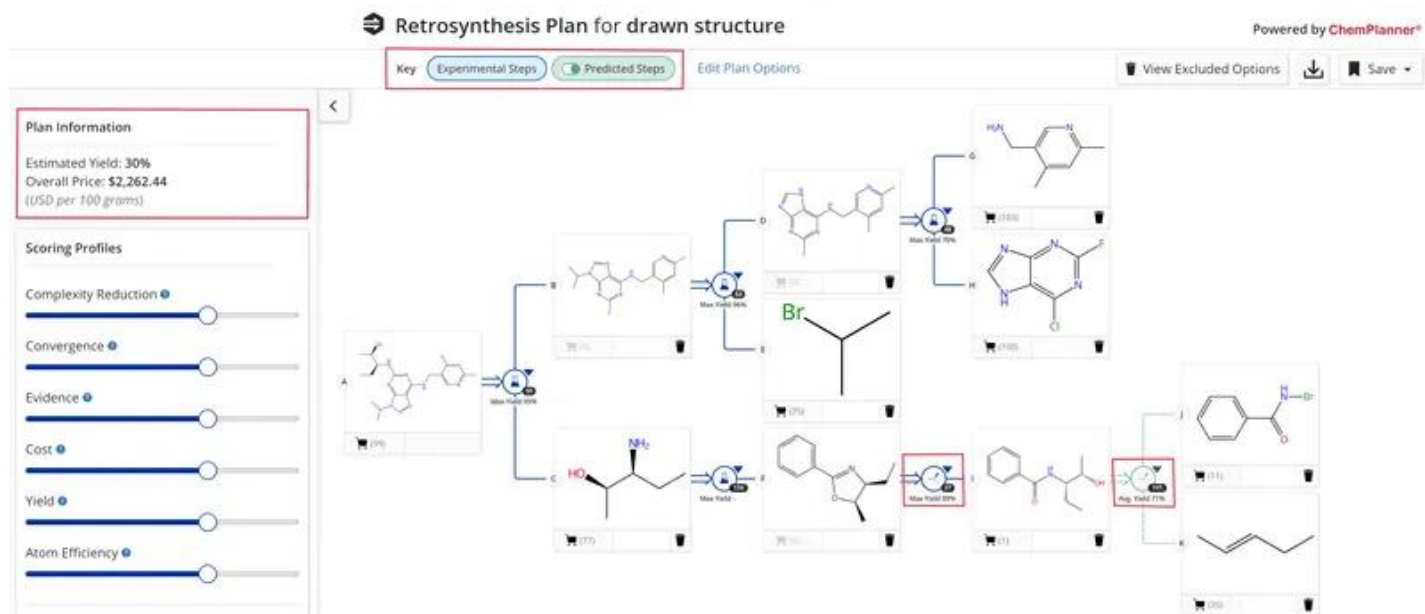
New search capabilities, expanded content, improved reporting and analytics.

## **Enhanced Retrosynthesis**

Support for personalized, interactive workflows for both single and multiple targets.

# CAS SciFinder Discovery Platform

Create a retrosynthesis plan targeted to your unique needs



Get a clear understanding of the diversity of alternatives and evidence for your planned synthetic route

## Synthesize

Access target molecules through published and predicted transformations.

## Scale up

Increase levels of production synthesis.

## Identify

Explore new breakthroughs in methods development.



# CAS SciFinder Discovery Platform for analytical chemists

CAS Analytical Methods™ is a single source for in-depth scientific methods

## Comprehensive

Hundreds of thousands of methods across multiple fields of study.

## Focused

Designed with the analytical chemist in mind as a single source for searching and comparing the latest published scientific methods.

## Integrated

Seamlessly integrated into CAS SciFinder.

The screenshot displays the CAS SciFinder interface. On the left, a 'Filter By' sidebar includes sections for 'Analyte' (Palmitic acid, Stearic acid, Linoleic acid, Oleic acid, Myristic acid), 'Matrix' (Leaf, Seed, Fruits, Oilseed, Root), 'Method Category', 'Technique', and 'Year' (with a bar chart from 2000 to 2024). The main area shows 14,126 results, sorted by Relevance. Two search results are visible, both titled 'Analysis of Urea in Blood serum by Potentiometry' by Karakus, Emine; Pekyardimci, Sule; Kilic, Esmâ. The first result is highlighted and includes details: Analyte (Ammonium; Urea), Matrix (Blood serum), Other Materials (Tetrahydrofuran, Tris(hydroxymethyl)aminomethane, Glutaraldehyde, Carbodiimide, Ammonium chloride, Nonactin, Poly(vinyl chloride), Bis(2-ethylhexyl) sebacate), Method Category (Biomolecule Isolation Assay; Suboptimal Analysis), Technique (Potentiometry; Biosensors), and Equipment Used (pH-ion meter). Buttons for 'View Abstract', 'Full Text', and 'View in CAS SciFinder' are present. A 'Compare' button is also visible. The second result is partially visible below.

# CAS SciFinder Discovery Platform for formulation scientists

Develop safe and effective products with CAS Formulus®

Formulations search for "celecoxib"

Get Additional References ✉ 📄 🔖 Save

Filter by

- Industry
  - Agrochemical
  - Cleaning & Surfactant Products
  - Cosmetics & Personal Care
  - Food & Related
  - Inks, Paints, & Coatings
- Purpose
  - Analgesics (1,645)
  - Anti-inflammatory agents (1,339)
  - Drug delivery systems (1,129)
  - Pharmaceutical formulations (847)
  - Antiarthritics (716)
- Physical Form

8,627 Results Sort: Relevance Group: By Family

1

**Celecoxib Capsule Formulation: Drug Delivery Systems** 🔍 Compare

Location: Claim 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14  
Purpose: Drug delivery systems  
Target: celecoxib  
Physical Form: Capsules

Component	Function	Amount Reported
Group: celecoxib drug-containing granules	-	<30 % (w/w)
Celecoxib	Anti-inflammatory agents <sup>Ⓜ</sup> , Cyclooxygenase 2 inhibitors <sup>Ⓜ</sup>	50-400 mass. parts
Maltodextrin	Diluents <sup>Ⓜ</sup> , Suspending agents <sup>Ⓜ</sup> , Thickening agents <sup>Ⓜ</sup> , Coating materials <sup>Ⓜ</sup> , Binders <sup>Ⓜ</sup>	1 mass

**PATENT**  
Method for preparation of celecoxib capsule  
Assignee: Beijing Fuyuan Pharmaceutical Co., Ltd.  
CN111803464  
Language: Chinese  
📄 Patent PDF 🔍 View in CAS SciFinder

## Faster Iteration

Understand a formulation's effectiveness with quick access to the best information for active ingredients and excipients.

## More Efficiency

Get insights beyond literature and interact with formulations data curated from patents, journals, and product inserts more effectively.

## Comprehensiveness

Evaluate ingredients, find alternative suppliers, and explore regulatory requirements in one easy interface.

# CAS SciFinder Discovery Platform to support regulatory needs

CAS Chemical Compliance Index™ is a single source for regulatory information

## Accurate

The industry's most dependable source of chemical information for more than 100 years.


## Global

Information sourced from more than 150 international regulatory inventories and lists.

## Up-to-date

Weekly updates ensures the latest information is available.

Details (1 of 1)  
CAS Registry Number: 2051-60-7  
Formula: C<sub>12</sub>H<sub>9</sub>Cl



Inventory Name	Inventory	Language
2-chlorobiphenyl	EINECS, REACH, VNECI	
2-chlorobiphenyle	EINECS	French
2-Chlorbiphenyl	EINECS	German
2-clorobifenilo	EINECS	Spanish

**Regulatory Synonyms**

- 1,1'-Biphenyl, 2-chloro-
- Biphenyl, 2-chloro-
- 1-Chloro-2-phenylbenzene
- 2-Chlorodiphenyl
- 2-Monochlorobiphenyl
- NSC 67354
- o-Chlorobiphenyl
- PCB 1
- 2-clorobifenile (Italian)
- 2-chlorbiphenyl (Danish)

[View all 14 Regulatory Synonyms](#)

**GHS: Most Common and Most Serious Identification Labels**

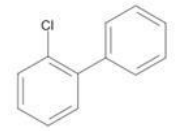
**Toxicity & Ecological Toxicity**

**Details by Country/International & Other Lists**

Harmonized Tariff Code  
Harmonized Tariff Code: 290399

- Australia**
- Canada**
- China**
- European Communities/European Union**

Search Within



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