

CAS ANALYTICAL METHODS™

# ACCELERATE METHOD DEVELOPMENT

Save time with access  
to easy-to-read methods

## Analytical scientists are a critical component of R&D

CAS Analytical Methods makes it simple to locate, compare, and understand analytical methods from top journals and patents.

### 10-15 years and \$3 billion

Average development time and cost of a new drug in pharma<sup>1,2</sup>

### 2-7 years

Average development time of a product line extension in specialty chemicals<sup>3</sup>

## CAS Analytical Methods is the solution that propels your analysis

For more than 100 years, analytical chemists have relied on CAS tools and expertise to power their work.

CAS monitors the market addressing common obstacles, such as:

- **Disparate data sources**  
Spend time searching online, using expensive consultants, and scouring primary literature
- **Insufficient content**  
Lack of methods within the primary literature or limited resources
- **Time pressure**  
Understanding there is little time allotted to produce a safe and effective product



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### Explore Methods

#### Method Category

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

#### Method Subcategory

Active Pharmaceutical  
**Chiral Separation**  
Natural Product Isolation  
Organic Compound

#### Include Keywords

taxifolin



Add Another Keyword

Search Methods

# CAS Analytical Methods provides a single resource during analysis

CAS Analytical Methods addresses the challenges that analytical scientists face, such as time pressure, lack of process, lack of method details in the literature, and limited resources. With this solution, it is easy to browse and find methods that may have not existed in or are buried in the primary literature.

Shorten research time and get to market faster with this unparalleled resource that makes it simple to locate, compare, and understand analytical methods from top journals and patents.

## Fast

77% of surveyed organizations said that shorter time is most important to them when using CAS Analytical Methods.<sup>4</sup>

## Efficient

Identify the best starting point and avoid dead ends. CAS Analytical Methods brings together information from multiple sources into a single solution that increases efficiency and effectiveness.

## Comprehensive

72% of surveyed organizations said that the step-by-step methods are crucial to their work.<sup>5</sup>

Find what you need with CAS Analytical Methods by searching the world's largest human-curated collection of scientific data using keywords, analytes, matrices, method categories, techniques, CAS Registry Numbers®, or publication names.

The screenshot shows the CAS Analytical Methods interface. At the top, there's a search bar with 'taxifolin' entered. Below the search bar, the results are displayed for 'taxifolin'. On the left, there's a 'Filter By' section with options for Analyte (Taxifolin, Quercetin, Catechin, Phenols, Gallic acid), Matrix (Leaf, Bark, Plant organ, Root, Seed), Method Category, Technique, and Year. The main results area shows two entries, both titled 'Analysis of Taxifolin by Spectrophotometry'. Each entry includes the authors, the journal name, and a brief description of the study. The first entry is from the Journal of Enzyme Inhibition and Medicinal Chemistry (2016), and the second is from the Journal of Enzyme Inhibition and Medicinal Chemistry (2016). Both entries list the analyte as Taxifolin, the reagent as ABTS; Ethanol; Potassium persulfate, the method category as Antioxidant Assay, the technique as Spectrophotometry, and the equipment used as Spectrophotometer. There are buttons for 'View Abstract', 'Full Text', and 'View in CAS SciFinder' for each entry. A bar chart at the bottom left shows the number of results over time from 2001 to 2023.

**"CAS Analytical Methods provides a specific route to begin my analysis, saving me time on trial and error."**

Scientist, medium enterprise chemicals company  
TechValidate TVID: 829-F49-4E0





CAS connects the world's scientific knowledge to accelerate breakthroughs that improve lives. We empower global innovators to efficiently navigate today's complex data landscape and make confident decisions in each phase of the innovation journey. As a specialist in scientific knowledge management, our team builds the largest authoritative collection of human-curated scientific data in the world and provides essential information solutions, services, and expertise. Scientists, patent professionals, and business leaders across industries rely on CAS to help them uncover opportunities, mitigate risks, and unlock shared knowledge so they can get from inspiration to innovation faster. CAS is a division of the American Chemical Society.

**Connect with us at [cas.org](https://cas.org)**

#### References

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2. Sullivan, T. (2019, March 19). A Tough Road: Cost To Develop One New Drug Is \$2.6 Billion; Approval Rate for Drugs Entering Clinical Development is Less Than 12%. Policy & Medicine. <https://www.policymed.com/2014/12/a-tough-road-cost-to-develop-one-new-drug-is-26-billion-approval-rate-for-drugs-entering-clinical-de.html>
3. Miremadi, M., Musso, C., and Oxgaard, J. (2013, May 1). Chemical innovation: An investment for the ages. McKinsey & Company. <https://www.mckinsey.com/industries/chemicals/our-insights/chemical-innovation-an-investment-for-the-ages>
4. TechValidate survey. TVID: 199-2CC-C6F
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