



Reaxys

# Accelerate innovation with *critical chemistry insights*

Optimize product development with Reaxys, an innovative database with a billion chemistry datapoints. Trusted quality data and AI-enhanced search and summarization help researchers and engineers meet sustainability goals, improve processes and enhance material properties. Turn complexity into clarity with Reaxys.



**125M**  
documents



**353M**  
substances



**49M**  
patents



**1.0B**  
data points



**415M**  
commercial products



**72M**  
reactions



**ELSEVIER**

Advancing human progress together

## Assess novelty, identify whitespace and monitor the competition with the largest patent collection in a chemistry database

- Get global coverage with 105 patent offices and claims translated to English.
- Identify competitors with up-to-date patent ownership information.
- Compare and contrast a full patent family with the patent clustering feature.

*“Reaxys provides our researchers with rich data and comprehensive perspectives for problem solving and thus ensures that our synthetic work is based on better solutions.”*

- VP of Chemistry, WuXi AppTec

## Empower researchers across disciplines with AI-enhanced search and summarization

- Explore complex chemistry topics using everyday language.
- Retrieve information from titles and abstracts of over 121 million documents across all areas of chemistry.
- Review AI-generated summaries, check cited sources and move from questions to evidence, faster.

The screenshot shows a search result for 'Bio-Based Polymers in Environmentally Friendly Plastics'. It includes an overview, a 'View full summary' button, and a list of search results. One result is highlighted: 'Biodegradable and bio-based polymers: Future prospects of eco-friendly plastics' with 845 citations. The abstract is visible: 'Abstract hit: [...demand for eco-friendly plastics. The use of bio-based plastics, which are produced from renewable...]

Discover the latest research and prior art across disciplines, from materials science to polymer chemistry.

## Enhance sustainability practices with greener molecules and methods

- Review experimental information including millions of reaction conditions, purification techniques and spectral data.
- Use green chemistry principles in synthesis and material design with smart filters to aid discovery.
- Shorten synthesis routes and improve atom economy using Reaxys Predictive Retrosynthesis.

The screenshot shows the 'Filters' panel on the left with options like 'By Structure', 'Yield', 'Reagent/Catalyst', 'Solvent', etc. The main area displays '3 Reactions out of 10 documents, containing 6 Substances, 0 Targets'. It shows chemical reaction schemes and a table of conditions. One entry is highlighted: 'With potassium phosphate; tris-(p-benzylideneacetone)dipalladium(0); tri-tert-butyl phosphine in water; toluene at 85 °C; for 24h; Inert atmosphere: 95%'. The reference is 'Current Patent Assignee: TOSOH ORGANIC CHEMICAL - JP5766033, 2015, B2'.

Go green with high-quality chemistry content, including reactions, substances, toxicity and bioavailability data.

Explore opportunities to integrate your own data in Reaxys (e.g., building block or ELN integration) and to access expertly curated chemistry data via API or flat file for custom applications.

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