

NEW REAXYS: THE SHORTEST PATH TO CHEMISTRY DATA AND LITERATURE

GENERAL INFORMATION

INTRODUCTION

Reaxys provides rapid and easy access to experimental facts to empower chemistry research, chemical discovery and scientific education. Finding relevant literature, retrieving precise compound properties and reaction data, and incorporating that information into research workflows has never been easier.

To ensure that Reaxys fully facilitates discoverability in the far-reaching and complex discipline of chemistry, two indexing processes occur alongside each other: the familiar manual indexing and excerption method applied to the essential journals, patents and textbook chapters; and a novel automatic but human-like indexing process applied to the broader range of chemistry-related periodicals and patents. Both processes use a chemistry-focused taxonomy covering every topic of interest to scientists performing chemistry research. They combine to maximize the discoverability of compound properties and relevant literature. In addition, because different scientists approach articles from different perspectives, each record is indexed with terms from 6 sources: Authors (from Scopus®), Compendex®, Embase®, GeoBase®, MEDLINE® and Reaxys itself. This supports a truly cross-disciplinary view of chemistry information.

Each query starts a search of a comprehensive database of literature covering every type of literature. Reaxys enables users to retrieve precise data points from within articles and patents or find full-text content. The database covers:

- ~450 core chemistry journals and textbooks A carefully curated collection of essential titles in organic, inorganic and physical chemistry as well as material science, petrochemistry, pharmacology, and medicinal and computational chemistry
- >16,000 chemistry-related periodicals, including conference abstracts A broad range of content that is relevant for chemists, including minor publications in core fields and major publications in related fields
- Patents from all the major world offices, including the US and Asia A global range of deeply indexed patents that undergo data excerption, going beyond the WO, US and EP content to include Asian-language patents from the China, Taiwan, Japan and South Korea offices.

OBJECTIVES

Knowing what are the advantages and how the new interface works.

Learn how to find substances and their properties.

Practice reaction searches.

Creation of synthesis route.

Searching for bibliographic information.

RECOMMENDED PRE-WORK

Log in to the new Reaxys interface (new.reaxys.com) and experiment with it a little bit.

Think about your your daily workflows and bring some examples to the session so it can be as interactive as possible.

CONTENT

- **Introduction to Reaxys**
 - Content.
 - General vision of the database, focusing on the new interface.
 - Is it worth register? Using of My alerts.
- **Substance search**
 - Structure from name generations, molecular formula...
 - Searching for properties.
 - Spectra searching (NMR, IR, Mass...).
 - Natural products.
- **Reaction search**
 - Reaction conditions.
 - Synthesis planner.
 - Autoplan (Automatic synthesis router generator)
 - Atom mapping
 - Substitution blocking
 - Estereochemistry
- **Displaying results.**
 - Visualization and filters.
 - Exporting results.
- **Questions and comments.**