

What is REAXYS?

[Reaxys](#) is a new web-based platform and user interface to search in The Beilstein, Gmelin and The Patent Chemistry Database. To-day user interface CrossFire will be closed during 2010.

If you have any problems or comments from your experience using REAXYS, please contact Tove Knutsen (Tove.Knutsen@ub.ntnu.no)

[Reaxys](#) is a web-based system for searching the world's most extensive collection of organic, organo-metallic, and inorganic chemistry data. Reaxys enables you to search by structure, substructure, reaction, text, and property data.

Being based on the CrossFire Beilstein, CrossFire Gmelin and Patent Chemistry databases Reaxys has a long history beginning with chemical data from 1771. So the information you find in Reaxys originates from around 3800 journals and patents from various patent offices. Reaxys has become unmatched as a source for deeply indexed information, especially for experimental reaction data. It aims at most efficiently supporting a chemist with relevant, validated facts and figures or procedure texts

The content in Reaxys comes from the following sources:

- The Beilstein Handbook
- The Gmelin Handbook
- Selected literature from 1772 to today
- Organic chemistry and Life Science patents from US (since 1976), World and European (since 1978) patent publications.
- Reaxys is updated monthly

Three databases were combined to create the Reaxys database:

The Beilstein Database

The Gmelin Database

The Patent Chemistry Database

Beilstein Database Content

The Beilstein content comprises data from the original Beilstein Handbook and from primary literature articles. From the Beilstein Handbook the Basic Series to Supplement IV were entered covering the literature from 1779 to 1959. The complete Handbook information is available for more than 1.1 million compounds.

The data source "Primary literature data from 1960 to 1979" has added ca. 3 million additional compounds with specific data available for melting point, boiling point, density, refractive index, optical rotatory power, isolation from natural products and chemical derivatives. All other physical and chemical properties are available as keywords together with corresponding references to the original literature.

The data source "Primary literature data >1979" contains detailed information for all physical and chemical properties abstracted from the literature. All data fields contain references as well as data.

Gmelin Database Content

The first source of information is the Gmelin Handbook of Inorganic and Organometallic Chemistry, from 1817 to 1975, including all main volumes and supplements. It presents

critically evaluated facts based on original literature and systematically arranges for a given substance.

The second source of information is a series of scientific journals dealing with inorganic, organometallic, and physical chemistry, as well as, with physics. From these journals inorganic and organometallic compounds, together with their relevant facts, are extracted. Information from this source is from 1975 to the present.

This data source is continuously evaluated and updated to provide data for all data fields.

Patent Chemistry Database Content

Patent Chemistry Database covers patent documents from the patent offices WO, EP and US from publication year 1976 onwards. Typically all patents are indexed automatically in a pre-processing step. Additionally patents in English language from publication year 2004 onwards are re-indexed manually to increase the depths of indexing and the precision. From Non-English patents only the front page information is indexed automatically.

Patent Chemistry Database indexes organic and organometallic compounds together with reactions and relevant facts, including physical and bioactivity data.

Covered Scientific Areas [International Patent Classification]

WO, EP and US patents in English are manually indexed, if they belong to the following classes of the International Patent Classes (IPC):

- Main IPC C07
- Main IPC A61K and secondary IPC C07
- Main IPC C09B

REAXYS HELP

Welcome to the Reaxys help system. Reaxys is a web-based search and retrieval system for chemical compounds, bibliographic data and chemical reactions. It is built to support chemists in their daily work with focussed and relevant information in chemistry.

Reaxys Training Center: for self-training purposes and to learn more about how to use Reaxys please visit the <http://www.info.reaxys.com/training-center> Reaxys Training Center where you can view and download instructional materials (e.g. demos, videos, manuals)

Reaxys Orientation Webinars: a quick introduction into Reaxys ensures your trial period is of maximum value for everyone involved. <http://www.info.reaxys.com/contact> Please ask for an individual webinar to be delivered on any working day, at a time convenient to you.

Reaxys Standard Webinars: please register for the weekly webinars at our <http://www.info.reaxys.com/webinars> Reaxys Info Website.