What is the ICSD?

The Inorganic Crystal Structure Database (ICSD) is a database of:

- > 160,000 *inorganic crystal structures*
- > 1,700 crystal structures of *elements*

The crystal structures present in the ICSD are taken from:

- > 1,900 periodicals
- Records from 1913 – present

How to search the ICSD

Ways to search the ICSD include:

- Chemical name
- Mineral name
- Chemical formula
- Bibliographic information
- Unit cell parameters
- Density
- Space Group Symbol

Alternatively, the **Chemistry Visual Search** can dictate the elemental composition of the compound.

Access the ICSD via the Chemical Database Service at [icsd.cds.rsc.org](http://icsd.cds.rsc.org)  
email: cds@rsc.org
What information is given?

Each inorganic crystal structure features additional information:

- Structural formula
- Space group
- Unit cell
- Cell parameters and cell volume
- Experimental details (pressure, temperature, powder/single crystal)
- Bibliographic information

Visualisation of data

The 3D crystal structure and calculated Powder Pattern can both be visualised within your browser.

How do I access the ICSD?

Access to the ICSD is authenticated by IP address via icsd.csd.rsc.org. If working off-campus a Chemical Database Service username and password will be issued.

The ICSD is provided by academic IP address via the Royal Society of Chemistry-hosted Chemical Database Service at cds.rsc.org. The ICSD is maintained by FIZ Karlsruhe GmbH. The Chemical Database Service is funded by the EPSRC.

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