ICSD

Inorganic crystal structure database at the Chemical Database Service

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

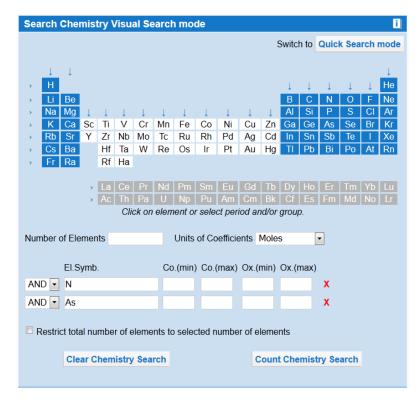
Unit cell parameters

Density

Space Group Symbol

Alternatively, the Chemistry Visual

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



Access the ICSD via the Chemical Database Service at <u>icsd.cds.rsc.org</u>

email: cds@rsc.org

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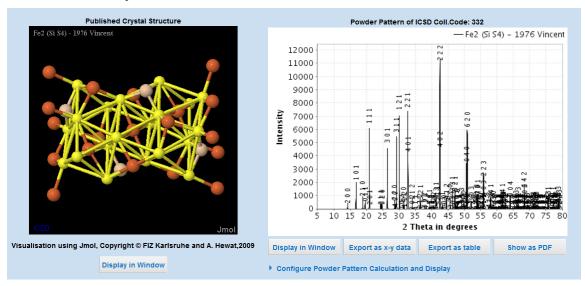
What information is given?

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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