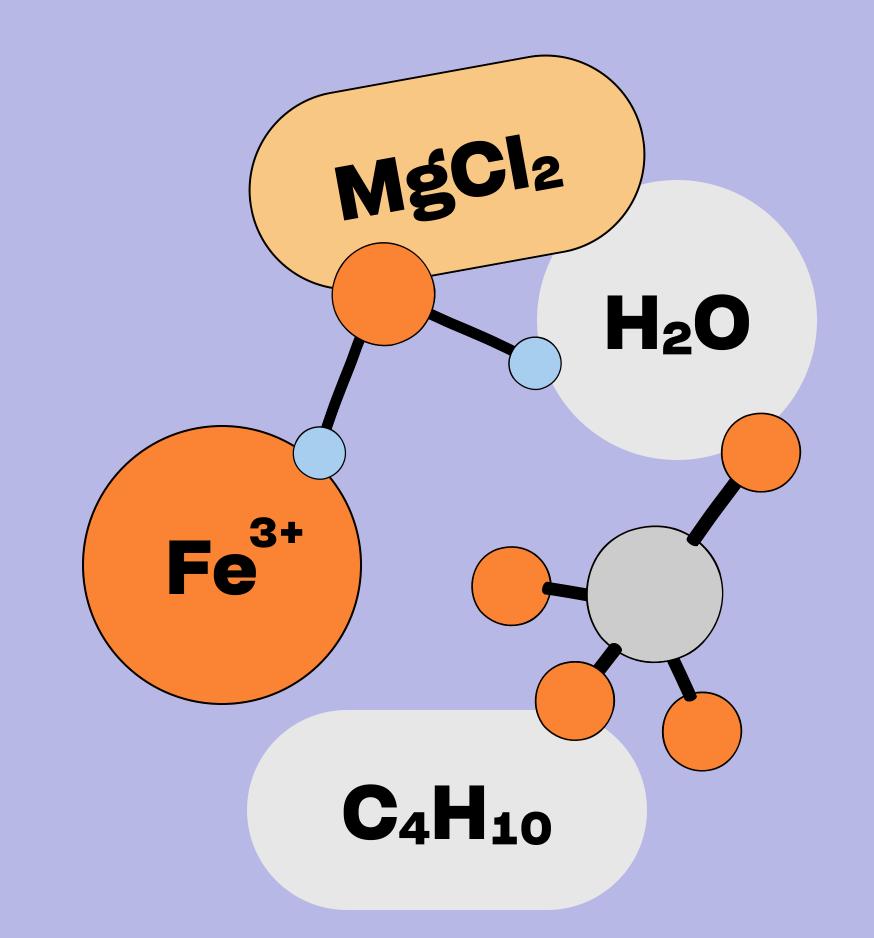


HOW DO CHEMIST USE ONLINE CHEMICAL DATABASES



Today, you will learn online chemical databases

1

Chemist use online chemical databases like PubChem and ChemSpider

2

- Searching for Chemical Information
- Spectral Data etc.

3

Online Chemical Databases are valuable.

Did You Know?

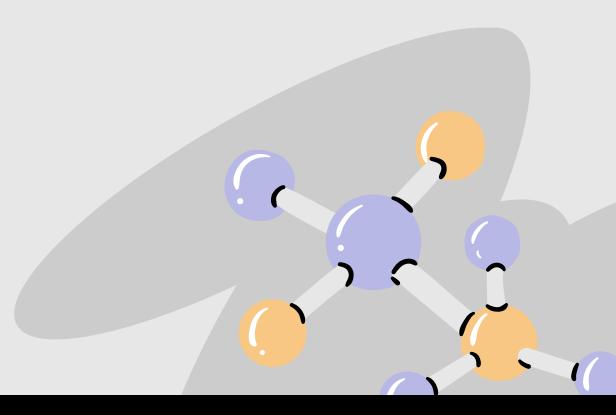
Chemical Abstracts Service (CAS): One of the earliest efforts to create a comprehensive chemical database was by the Chemical Abstracts Service (CAS), which is part of the American Chemical Society. In the 1960s, they transitioned to computer-based indexing and created the CAS Registry, which is one of the most comprehensive collections of chemical substances. In the 1990s, CAS began offering online access to their databases, making chemical information more accessible.



WHAT ARE VIRTUAL CHEMISTRY LAB AND HOW DO THEY ASSIST IN SCIENTIFIC DISCOVERY

Element







Virtual Chemistry Lab

- Simulated Apparatus and Chemicals
- Manipulate Variables
- Displayer Results
- Safe Experimentation
- Cost Effective
- Accessibility
- Repetition and Mastery
- Real-Time Data Analysis



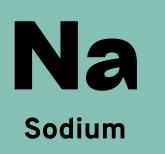
WHAT ARE SOME ONLINE TOOLS FOR MOLECULAR MODELING AND REACTION SIMULATION

Types of Online Tools for Molecular Modeling and Reaction Simulation



- ChemSketch (ACD/Labs)
- Avogadro
- MolView





- ChemDoodle Web Components
- Gaussian & GaussView



- PhET Interactive Simulations
- Molecular WorkBench
- Jmol/JSmol



THANK YOU

