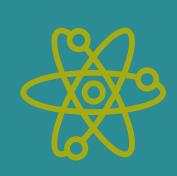


InChI is...

IUPAC International Chemical Identifer (InChI)



- A unique identifier of a chemical structure serving as its digital signature
- A machine-readable string of characters derived solely from a structural representation of a chemical substance
 - A project of IUPAC and the InChITrust



The purpose of InChI is...

- To streamline naming conventions for chemical compounds and reactions
- To uniquely identify a chemical substance, without ambiguity, providing a precise, robust, structure-derived tag for chemical substances
- To assist in merging and linking chemical databases

InChI is essential...

as the only structure representation standard in the public domain, open-source and freely available to the scientific community



The InChI Timeline

1999/2000

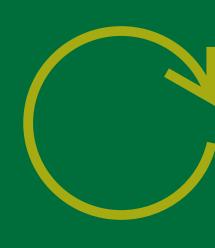
Steve Heller and Steve Stein initiate InChl project at the request of IUPAC

A fixed length (27 character)

2008

condensed digital representation of the InChI called the InChIKey was developed 2017

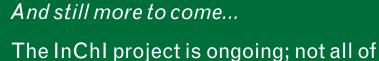
Latest version of InChI software was released along with InChI for reactions



2005 Launch of InChl

2009

Formation of a Trust for a strategic vision and funding for the InChl project



chemistry is yet covered by the software.

The vast majority of organic compounds can be encoded into InChIs, but many inorganic and organometallic compounds are still work in progress.







Chemical Compound	InChI	InChI-Key
Methanol	1S/CH4O/c1-2/h2H,1H3	OKKJLVBELUTLKV-UHFFFAOYSA-N
Lithium hydride	1S/Li.H	SIAPCJWMELPYOE-UHFFFAOYSA-N
Acetone	1S/C3H6O/c1-3(2)4/h1-2H3	CSCPPACGZOOCGX-UHFFFAOYSA-N

Make your own

The key component of InChI-enabled communication is a

software package that encodes a chemical structure into a

string of letters and numbers called an identifier. The InChI software in action....



Communicate chemical structures simply by encoding the structure into the string using the free software tool, transmit the unique identifier.

The most current InChI software release can be down-

loaded from the InChITrust download page

The receiver then decodes (with the identical software)

the string back into a connection table.

(inchi-trust.org)

Help build the chemical web and

encourage others to do the same!

Be part of the InChI community...



Explore more than 90 000 000 chemical compounds with an InChI here: pubchem.ncbi.nlm.nih.gov

Explore more than **156 000 000** chemical structures here: ebi.ac.uk/unichem

Learn more here



Join the



InChl Collection in J Cheminf: biomedcentral.com/collections/InChl

Many InChIs and quite some feat

by Wendy A. Warr: link.springer.com/article/10.1007%2Fs10822-015-9854-3

(or https://rdcu.be/M0kk)

Google tech:

youtube.com/watch?v=mpZj4b9eIYE





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