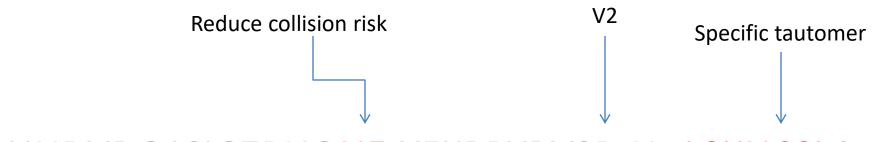# InChI V2

...a few thoughts and questions

What should go into InChI[Key] V2?

- More comprehensive handling of tautomerism
- Making the FixedH layer mandatory
- Add another layer to InChIKey: specific tautomer
- Lengthening of InChIKey blocks?

- In which sequence should other extensions be added?

Reduce collision risk

V2

Specific tautomer

HNDVDQJCIGZPNO**NE**-YFKPBYRVS<u>B</u>-N--**LSKNCSLA**

If molecule has no tautomers (e.g. benzene):

UHOVQNZJYSORNB**OB**-UHFFFAOYS<u>B</u>-N--**NOTTAUTO**

Searches with InChIKey V2

Full-tautomer search:
HNDVDQJCIGZPNONE-YFKPBYRVSB-N--LSKNCSLA

Tautomer-invariant search:
HNDVDQJCIGZPNONE-YFKPBYRVSB-N

InChIKey V1 search:
HNDVDQJCIGZPNO-YFKPBYRVSA-N

…Google should be able to handle this