

L28 Structural Formulas

TODAY'S
DATE

E.Q.: How can molecules with the same molecular formula be so different?

ensus

two compounds can have identical molecular formulas but smell different b/c compounds w/ identical molecular formulas may have different structures

to show how individual atoms are bonded to each other chemists use structural formulas

structural formula a two-dimensional drawing or diagram that shows how the atoms in a molecule are connected

e.g.,
CH₄ H
 |
 H-C-H each line
 | represents a
methane H covalent bond

Isomers → Compounds with the same molecular formula but different structural formulas; they differ in molecular structure + in chem + physical properties (such as smell)

for example: C_2H_6O

