is a family of compounds that have the same functional group and general formula

The minimal detail that shows the arrangement of atoms in a molecule.

an algebraic formula that can describe any member of a family of compounds

nomologous series

Structural Formula

general formula

Formulas

General Formula

Displayed Formula

Skeletal Formula

The simplest algebraic formula of a member of a homologous series.

The relative positioning of atoms and the bonds between them.

The simplified organic formula, shown by removing hydrogen atoms from alkyl chains, leaving just a carbon skeleton and associated functional groups.