The structural formula of a covalent compound is the formula that shows the connectivity of atoms in its molecule.

eg. 1: The Structural formula of ethane is

\[
\text{H} - \text{C} - \text{C} - \text{H}
\]

eg. 2: The structural formula of nicotine is

\[
\begin{array}{c}
\text{N} \\
\text{C} \\
\text{C}
\end{array}
\]

eg. 3: The structural formula of cholesterol is

\[
\begin{array}{c}
\text{HO} \\
\text{C} \\
\text{C}
\end{array}
\]

eg. 4: The structural formula of ascorbic acid (vitamin C) is

\[
\begin{array}{c}
\text{HO} \\
\text{C} \\
\text{O}
\end{array}
\]

see also [molecular formula](#)

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