eg. 1: Butane and isobutane have the same molecular formula, C\(_4\)H\(_{10}\), but different structural formulas.

\[
\begin{array}{cc}
\text{structural formula} & \text{structural formula} \\
of \text{butane} & \text{of isobutane}
\end{array}
\]

Therefore, butane and isobutane are constitutional isomers.

eg. 2: Ethyl alcohol and dimethyl ether have the same molecular formula, C\(_2\)H\(_6\)O, but different structural formulas.

\[
\begin{array}{cc}
\text{structural formula} & \text{structural formula} \\
of \text{ethyl alcohol} & \text{of dimethyl ether}
\end{array}
\]

Therefore, ethyl alcohol and dimethyl ether are constitutional isomers.

see also stereoisomers, skeletal isomers, positional isomers, functional isomers

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**Contributors**

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