

## Answer on Question #43839 - Chemistry - Organic Chemistry

### Question:

which structure type of butane gives the least information about the atoms and how they are bonded?

### Answer:

The chemical composition of butane can be represented in a three major ways:

- 1) Brutto-formula shows only how much atoms of each type are in the molecule.
- 2) Shortened structural formula gives the information about order in which atoms are bonded.
- 3) Full structural formula considers the rate of bonds between atoms.

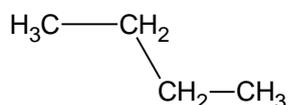
The least information gives the first type – **brutto-formula**.

Each type of formulae for butane:

1) **Brutto-formula: C<sub>4</sub>H<sub>10</sub>**

2) Shortened structural formula: CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>

3) Full structural:



**Answer:** Brutto-formula.