

Ways of Representing Structures

Pre-lesson assignment – Textbook page 173-175

Define the following terms

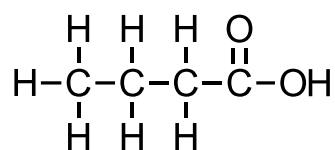
- Molecular Formula
- Empirical Formula
- Structural Formula
- Displayed Formula
- Skeletal Formula

Now watch the video on different formulae

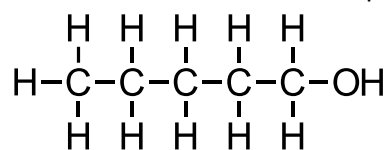
Make notes on drawing structures

Use the following questions as guidance

1. Write the molecular formula of Butanoic acid



2. Write the empirical formula of Ethane (C_2H_6)
3. Write the general formula for an alkane
4. Write the formula for a carboxylic acid where $n=4$
5. Draw a possible displayed formula for the molecule $\text{C}_4\text{H}_9\text{Cl}$
6. Write a structural formula for pentanol



7. Draw the skeletal formula for the alkane $\text{CH}_3(\text{CH}_2)_4\text{CH}_3$