Source: [KBhBlO101Macromolecules]

## 1 | Lipids

## **Pentaine**

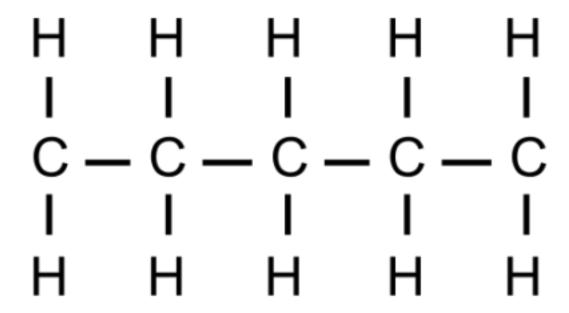


Figure 1: pentane-plus-market-400x225.png

A non-polar molecule that build up the fundamentals of lipids.

- · Non polar
- · Will only have LDF
- Hydrophobic
  - · Because it is non polar, will only have LDF
  - · So, water's dipole moment makes it not attractive to pentaine
  - Large surface area of pentaine will result in more LDF (bigger surface area => more opportunities
    to LDF), so pentaines will more likely to LDF with other pentains if given the choice between
    pentain vs. water

## and now, a note on LDF

Pentaine => Carbon-Carbon bonds has 0 EN difference w/ even distribution of electrons

- Electrons are randomly within their 3D shape
- · So, when electrons are accidentally concentrated, a dipole moment will temporarily form

## And now, actually lipids

Lipids are built up from peintaine molecules. You could also take many of these lipids + other elements to build up more complicated, hydrophobic/phillic structures.

[KBhBlO101StructuresOfLipids]