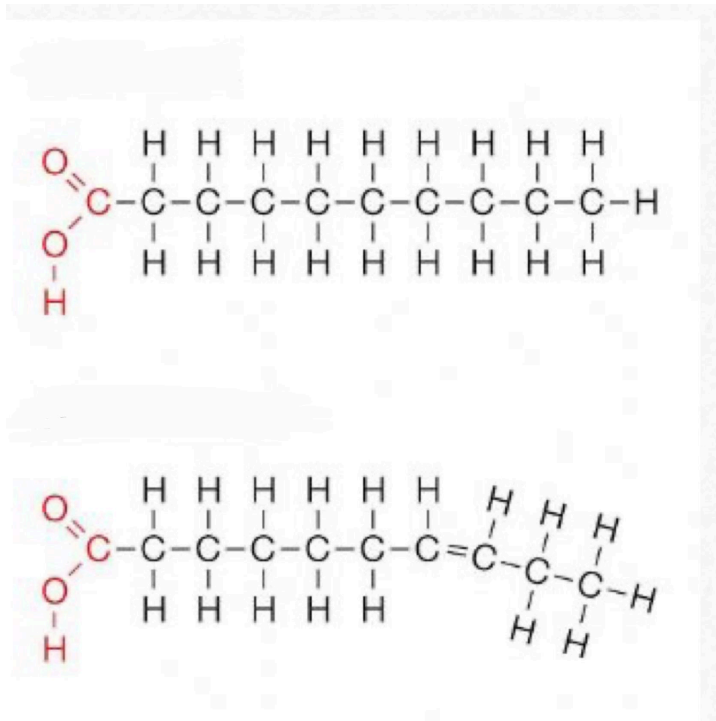


## Label Saturated or Unsaturated, Why?

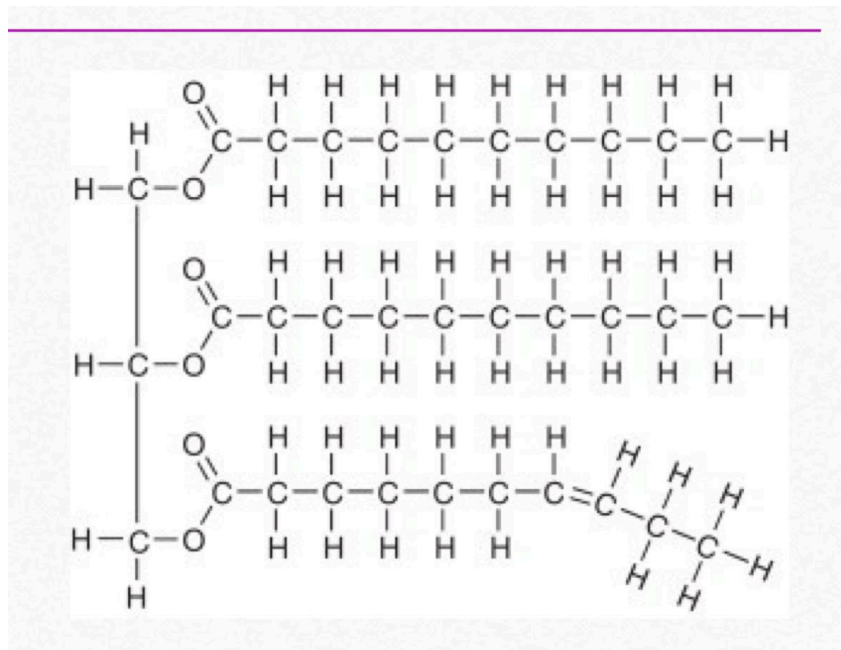


saturated on top

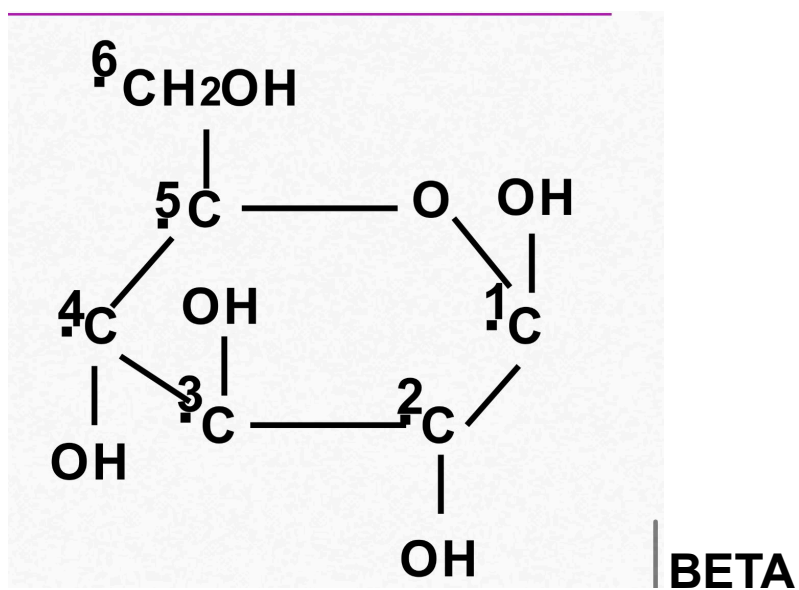
unsaturated on bottom, double bond is unsaturated

Identify if Saturated or Unsaturated, and what the structure is and what's holding it together.

Saturated- sat- unsaturated, triglyceride holds 3 fats and glycerol

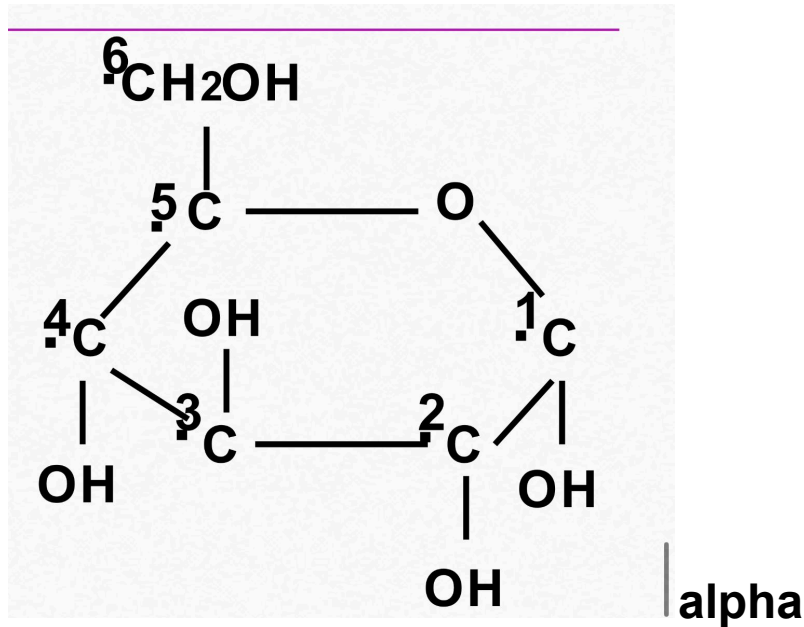


**Beta or Alpha ?**



**Trick to remember: birds fly in the sky (up)**

**Beta or alpha**



**Trick to remember: all fish swim in water (down)**

**2 basic functions of water**

- 1) Metabolism**
- 2) Temperature Control**

**Metabolic Water: water of oxidation**

**Intracellular fluids account for:**

**40 % of total body water**

**Extracellular fluids account for:**

**33 % of total body water**

**Where is the other water coming from?**

## **GI and Urinary tract**

**How does stage of maturity affect water content of the body?**

**Newborns: higher water content**

**Adults: lower water content**

**What else affects water content of the body?**

**Amount of fat in tissues**

**Water is absorbed from what 4 parts of the GI tract**

- 1) ileum**
- 2) Jejunum**
- 3) Cecum**
- 4) Large intestine**

**In ruminants, net water absorption is from**

- 1) Rumen**
- 2) Omasum**

**Name water Sources**

- 1) drinking water**
- 2) Water in or on feed**

**3) Metabolic water/ water of oxidation**

**4) Condensation reaction that yield water**

**5) Preformed water in tissues**

**< 5000 PPM total dissolved solids (TDS)**

**< 3000 PPM sulfates**

**< 100-200 PPM nitrates**